

SCS ENGINEERS

Groundwater Monitoring Report and Evaluation of Monitored Natural Attenuation: Fourth Quarter 2005 and First Quarter 2006

**365 Todd Road
Santa Rosa, California
(Assessor's Parcel No. 134-102-024)**

File Number: 01203335.00

Prepared by:

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To:

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20 June 2006

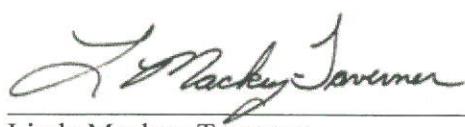
LIMITATIONS/DISCLAIMER

This report has been prepared for Mr. Cliff Hill and J.E. McCaffrey Company with specific application to a quarterly monitoring event and evaluation of monitored natural attenuation for the property located at 365 Todd Road, Santa Rosa, California. Field activities and sampling were conducted in accordance with the care and skill generally exercised by reputable professionals, under similar circumstances, in this or similar localities. No other warranty, either expressed or implied, is made as to the professional advice presented herein.

Access to the Property was limited by buildings, automotive traffic, underground and aboveground utilities, and other miscellaneous site features. Therefore, the field exploration and points of subsurface observation were somewhat restricted.

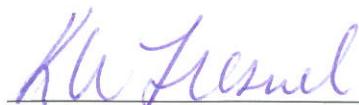
Changes in site use and conditions may occur due to variations in rainfall, temperature, water usage, or other factors. Additional information that was not available to the consultant at the time of this quarterly monitoring event or changes that may occur on the site or in the surrounding area may result in modification to the site that would impact the summary presented herein. This report is not a legal opinion.

We trust this document provides the information you require at this time and we appreciate the opportunity to work with you on this project. If you require any additional information, or have any questions, please do not hesitate to contact SCS at (707) 546-9461.


Linda Mackey-Taverner
Vice President

June 20, 2006

Date


Karin Fresnel CEG # 2264
CA registration fees paid through 08/31/07

Date

20 June 2006

Date



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Analytical Sciences Report #6011706, dated 30 January 2006

LIST OF ACRONYMS

TPH-g	=	Total petroleum hydrocarbons as gasoline
TPH-d	=	Total petroleum hydrocarbons as diesel
MTBE	=	Methyl tertiary butyl ether
DIPE	=	Di-isopropyl ether
ETBE	=	Ethyl tertiary butyl ether
TAME	=	Tertiary amyl methyl ether
TBA	=	Tert-butyl alcohol
$\Phi\text{g/L}$	=	Micrograms per liter
ND	=	Non detect
NA	=	Not analyzed
Fe^{+2}	=	Ferrous iron
SO_4	=	Sulfate
ORP	=	Oxygen reduction potential
Mn	=	Manganese
NO_3	=	Nitrate
CO_2	=	Carbon dioxide
CH_4	=	Methane
Mg	=	Magnesium

INTRODUCTION

SCS Engineers (SCS) is pleased to present the results of the fourth quarter 2005 and first quarter 2006 groundwater monitoring and sampling events and evaluation of monitored natural attenuation for 365 Todd Road, Santa Rosa, California (Site) (Assessor=s Parcel No. 134-102-024) (Figure 1). A summary of historical site investigative activities are presented in previous reports (see References). The Site is located 2500 feet southwest of an unnamed creek, the nearest surface water, which drains west toward the Santa Rosa Plain (Figure 2).

SECTION 1

1.0 QUARTERLY MONITORING

1.1 GROUNDWATER MONITORING

1.1.1 Fourth Quarter 2005

Groundwater depths were measured in monitoring wells MW-4 through MW-10 and MW-14 through MW-35D on 20 and 21 October 2005. Groundwater depths ranged from 8.83 to 11.43 feet below existing ground surface (bgs) in the shallow monitoring wells (Table 1) and from 10.43 to 28.97 feet bgs in the deep monitoring wells (Table 2). Casing and groundwater elevations are reported in feet relative to mean sea level. The depth to groundwater measurements and well casing elevations were used to calculate groundwater flow direction and gradient in the shallow and deeper water-bearing zones. Depth to groundwater is expressed in feet. The groundwater flow direction for the fourth quarter 2005 monitoring event was south-southwest in the shallow water-bearing zone at an average gradient of 0.002 feet/foot (ft/ft) (Figure 2; Table 1) and south in the deeper water bearing zone at an average gradient of 0.02 ft/ft (Figure 3; Table 2).

1.1.2 First Quarter 2006

Groundwater depths were measured in monitoring wells MW-4 through MW-10 and MW-14 through MW-35D on 13, 16 and 17 January 2006. Groundwater depths ranged from 1.69 to 5.40 feet below existing ground surface (bgs) in the shallow monitoring wells (Table 1) and from 5.42 to 26.97 feet bgs in the deep monitoring wells (Table 2). Casing and groundwater elevations are reported in feet relative to mean sea level. Depth to groundwater is expressed in feet. The groundwater flow direction for the first quarter 2006 monitoring event indicate that groundwater flow direction was north-northwest in the shallow water-bearing zone at an average gradient of 0.003 ft/ft (Figure 14; Table 1) and south-southwest in the deeper water bearing zone at an average gradient of 0.05 ft/ft (Figure 15; Table 2).

1.2 GROUNDWATER SAMPLING

Monitoring wells were checked for the presence of separate phase hydrocarbons (SPH) using an oil/water interface probe. SPH was not present during this monitoring event. Monitoring wells

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were purged of approximately three wetted well casing volumes of groundwater, or at least five gallons, whichever was greater, or until the well went dry, using a submersible pump. Temperature, pH, conductivity, dissolved oxygen, and turbidity readings were measured during purging to demonstrate that groundwater representative of aquifer conditions was entering the well casing for sampling. Monitoring wells were allowed to recover to 80% of static levels or for 2 hours prior to collecting groundwater samples. Groundwater samples were collected using a separate disposable bailer for each well. Samples were transferred into appropriate laboratory-supplied containers for analysis and stored in refrigerated conditions. The samples were transported under Chain-of-Custody documentation to Analytical Sciences (AS); a California Department of Health Services certified laboratory, located in Petaluma, California. All samples were collected following SCS' Standard Soil and Water Sampling Procedures and QA/QC Protocol. Information obtained during sampling was recorded on groundwater field sampling forms. Well Purge Records were generated and copies are presented in Appendix A. Purge water generated during sampling activities is stored at the site in labeled UN/DOT approved 17 E/H drums, pending characterization and disposal.

1.3 LABORATORY ANALYSIS

Groundwater samples collected from the monitoring wells were analyzed for:

- Total petroleum hydrocarbons as diesel (TPH-d) by EPA Method 3510/8015M
- Benzene, toluene, ethylbenzene, and xylenes (BTEX)
- Fuel oxygenates by EPA Method 8260B
 - tert-butyl alcohol [TBA]
 - methyl tert butyl ether [MTBE]
 - di-isopropyl ether [DIPE]
 - ethyl tert-butyl ether [ETBE]
 - tert-amyl methyl ether [TAME])
- Natural attenuation parameters (alkalinity, CO₂, oxidation/reduction potential (ORP), Fe²⁺, SO₄, NO₃, and pH).

Natural attenuation parameters analysis was performed by AS by the best available methods. Laboratory analytical reports are presented in Appendix B. Dissolved oxygen measurements were collected in the field using down-hole field monitoring equipment.

1.4 GROUNDWATER ANALYTICAL RESULTS

1.4.1 Monitoring Wells

Groundwater analytical results for the October 2005 and January 2006 sampling events are presented in Table 3. Analytical results are contoured on isoconcentration maps for MTBE and natural attenuation parameters (Figures 4 through 13 and 16 through 25). Current and historic analytical results are presented in Table 3. Laboratory reports are presented in Appendix B. Figure 26 illustrates MTBE concentration and groundwater elevations versus time are in shallow monitoring wells.

1.4.2 Domestic Wells

Groundwater samples were collected from domestic well DW-376 on 21 October 2005. Groundwater samples were collected with a new disposable bailer. Samples were transferred from the bailer into appropriate laboratory-supplied containers, labeled, refrigerated and transported under a Chain-of-Custody to AS, a California Department of Health Services certified laboratory, in Petaluma, California.

Groundwater samples from well DW-376 were analyzed for:

- BTEX and Fuel oxygenates by EPA Method 8260B.

The groundwater sample from well DW-376 contained 11 µg/L MTBE. All other target analytes were below laboratory minimum detection limits (MDLs).

1.5 DISCUSSION

The groundwater analytical data from the October 2005 and January 2006 sampling events are generally consistent with seasonal variations and declining concentrations of contaminants over time. Shallow groundwater impacted by MTBE extends from the center of the site near MW-10, southward in a relatively narrow band across Todd Road in the shallow screened wells (figure 4). From the October 2005 data, the MTBE plume in the deeper water-bearing zone appears to be limited to the vicinity of monitoring wells MW-18D and MW-25D (figure 5). Figures 6 through 13 illustrate isoconcentration contours for natural attenuation parameters. Based on the January 2006 analytical results, the MTBE plume in the deeper water-bearing zone appears to be limited to the vicinity of monitoring wells MW-17D, MW-26D, and MW-27D (Figure 17). MTBE concentrations in the deeper aquifer were below water quality objectives in the January monitoring event. Figures 18 through 25 illustrate isoconcentration contours for natural attenuation parameters.

SECTION 2

2.0 EVALUATION OF MONITORED NATURAL REMEDIATION (MNR)

2.1 INTRODUCTION

Groundwater samples collected in the October 2005 and January 2006 monitoring events were analyzed for the presence of geochemical indicator species of natural remediation (Table 4). The analyses were conducted as part of the FS/CAP in order to evaluate the potential of monitored natural remediation (MNR) as a remedy at the site. Concentrations of MNR indicator species in groundwater are plotted on Figures 6 through 13 for the October 2005 event and figures 18 and 25 for the January 2006 event. Available data evaluated are presented in Table 4. Laboratory reports are presented in Appendix B.

The site is located in a mixed commercial/residential zone supplied by a community water system. Sewage disposal in the area is provided by on-site septic systems. Approximately 95% of the site is covered by relatively impermeable materials (structures, asphaltic concrete, and concrete). Subsurface materials are best described as interbedded clay, clayey sand, sandy gravel, and gravel. Depth to groundwater in the shallow water-bearing zone ranges from approximately 1 to 25 feet below existing grade south-southwest (Table 1, Figure 2). Depth to groundwater in the deeper water-bearing zone ranges from approximately 1 to 35 feet bgs. Groundwater is present in the more coarse-grained materials (e.g. silty sand, silty-sandy gravel, etc.) beneath the site. Hydraulic conductivity in these types of materials may range from 0.0001 to 0.01 centimeters per second (Fetter, 1994). The area receives moderate rainfall, averaging 35-40 inches per year, dominantly in the winter months.

2.2 LIMITATIONS

A review of the monitoring network indicates that on-site, up-gradient and cross-gradient conditions appear to be well defined at the Site. Downgradient conditions are moderately well defined. Additional data including carbon to nitrogen to phosphorus (C:N:P) ratio in soil, extant microbial populations, soil moisture and fractional organic carbon content, dissolved oxygen within the groundwater plume footprint, and upgradient conditions were not available for review. Site specific data regarding hydraulic conductivity and groundwater velocity were not available at the time of this review. The primary groundwater contaminant at the Site is MTBE; a compound that is considered slow to respond to most remedial alternatives when compared with petroleum hydrocarbons.

2.3 MNR DATA EVALUATION

- ◆ pH conditions are generally favorable for microbial survivability at the site.
- ◆ The approximate extent of the nitrate concentrations beneath the site are contoured on Figures 6 and 18. This indicator species is depleted in the central area of the site and generally co-spatial with the area of known impact (Table 3 and 4). Higher nitrate concentrations are noted downgradient from the septic system at the Site and the chicken

ranch on the eastern margin of the Site. This indicates probable nitrate loading in these areas.

- ◆ Sulfate concentrations in groundwater (Figures 7 and 19) in the vicinity of MW-5 are depleted relative to outlying background wells indicating that sulfanogenesis is occurring in concert with denitrification.
- ◆ Methane concentrations in the vicinity of MW-5 are 100 times higher than background concentrations indicating that methanogenesis is occurring co-spatially with denitrification and sulfanogenesis (figures 11 and 23).
- ◆ Oxidation-reduction potential (ORP) indicates that anaerobic conditions are prevalent beneath the site (Table 4). This may be due to the presence of the TPH plume, the presence and influence of nearby septic system leach fields, or a combination thereof. ORP measurements collected to date generally indicate an increasing ORP near the western and southwestern site boundaries and a decreasing ORP in other parts of the site.
- ◆ Ferrous iron and carbon dioxide concentrations are elevated in the project wells within the impacted area. Isoconcentration maps indicate that these indicator species are co-spatial with the approximate MTBE and former source area footprint, indicating that anaerobic conditions exist in this area and that natural degradation is likely following an anaerobic path in this area (Figures 3, 9, 20, and 21).
- ◆ Dissolved oxygen measurements do not appear to be representative of actual conditions beneath the site when compared with other indicator species.
- ◆ There is no apparent residual MTBE soil source area at the Site.
- ◆ Groundwater gradient at the Site is relatively low in the shallow water bearing zone.
- ◆ Precipitation at the site averages 35 to 40 inches per year, mostly in the winter months (October–April). Precipitation during very wet years may exceed 60 inches. Precipitation conditions at the site appear generally favorable.

A review of known subsurface soil conditions including concentrations of petroleum hydrocarbons and soil types from previous investigations in addition to regional publications (Cardwell 1958; Miller 1972; Huffman and Armstrong, 1980) was conducted as part of the evaluation. Soil conditions for petroleum hydrocarbon degradation appear generally favorable for this natural attenuation as a remedial alternative based on the geochemical parameters (above and hydrocarbon concentrations in soil appear generally within acceptable limits (USEPA, 1995). Soil composition and structure also appear generally favorable in that dispersion and aeration are more likely to occur in the granular material present beneath the site.

2.4 MNR REMEDIAL EFFICACY EVALUATION

Data collected to date indicate that anaerobic biodegradation is occurring at the Site. Data indicate that MNR has the potential to remediate residual petroleum hydrocarbons in soil and groundwater at the site.

The data collected are supportive of the potential for microbial action (MNR) to be effective for MTBE in groundwater at the Site based upon data collected to date. Diffusion/dispersion will likely contribute to attenuation of MTBE in groundwater at this Site as well.

Nitrate, organic carbon, and potential phosphorous loading from septic system leach fields at and near the Site and from neighbouring ranching operations will likely contribute sufficient nutrients to support microbial populations, but will also drive subsurface site conditions anaerobic as a result of anticipated high biological oxygen demand from septic systems.

SCS recommends continued monitoring of geochemical indicator species to evaluate MNR as a viable remedial alternative. An in depth analysis of MNR potential at the Site will be provided with the next quarterly monitoring event.

SECTION 3

3.0 REFERENCES

- Bradley, P.M., Chapelle, F.H., and Landmeyer, J.E., 2001, Methyl t-Butyl Ether Mineralization in Surface-Water Sediment Microcosms under Denitrifying Conditions: in Applied and Environmental Microbiology, Vol. 67, No. 4, p. 1975-1978.
- Cardwell, G. T., 1958, Geology and Ground Water in the Santa Rosa and Petaluma Valley Areas Sonoma County, California: US Geological Survey Water-Supply Paper 1427, 265p.
- Harris & Lee, 1995, Preliminary Site Assessment Work Plan for 365 Todd Road, Santa Rosa, California, November.
- _____, 1997a, Monitoring Report, May 19.
- _____, 1997b, Sensitive Receptor Survey, September 22.
- Huffman, M.E. and Armstrong, C.F., 1980, Geology for Planning in Sonoma County: California Geological Survey Special Report 120, 31 p.
- Miller, V.C., 1972, Soil Survey of Sonoma County: USDA Soil Conservation Service, 188 p.
- PNEG, 1999a, Interim Corrective Action Work Plan for 365 Todd Road, Santa Rosa, California, March 2.
- _____, 1999b, Underground Storage Tank Removal - 365 Todd Road, Santa Rosa, California, May 21.
- _____, 1999c, Report on Overexcavation of Soil and Pit Dewatering at 365 Todd Road, Santa Rosa, California, July 6.
- _____, 1999d, Work Plan for Additional Groundwater Investigation - 365 Todd Road, Santa Rosa, California, December 14.
- _____, 2000a, Feasibility Study - 365 Todd Road, Santa Rosa, California, May 1.
- _____, 2000b, Work Plan for Permanent Water Supply - Todd Road Area, Santa Rosa, California, July 12.
- _____, 2000c, Report of Additional Groundwater Investigation, Groundwater Monitoring Event, and Work Plan for Additional Investigation - 365 Todd Road, Santa Rosa, California, December 29.

- _____, 2001a, Report of Additional Groundwater Investigation, Groundwater Monitoring Event, and Work Plan for Additional Investigation - 365 Todd Road, Santa Rosa, California, January 16.
- _____, 2001b, Report of 4th Quarter 2000 Quarterly Monitoring and Sampling at 365 Todd Road, Santa Rosa, California, February 23.
- _____, 2001c, Report of 1st Quarter 2001 Quarterly Monitoring and Sampling at 365 Todd Road, Santa Rosa, California, May 1.
- _____, 2001d, Work Plan for Permanent Water Supply - Todd Road Area, Santa Rosa, California, July 12.
- _____, 2001e, Report on Additional Groundwater Investigation Plus Results of Monitoring and Domestic Well Sampling - 365 Todd Road, Santa Rosa, California, July 19.
- _____, 2001f, Results of the 3rd Quarter 2001 Groundwater Monitoring and Sampling and Domestic Well Sampling Event - 365 Todd Road, Santa Rosa, California, December 27.
- _____, 2002a, Results of the 4th Quarter 2001 Monitoring Well and Domestic Well Groundwater Monitoring and Sampling Event - 365 Todd Road, Santa Rosa, California, March 14.
- _____, 2002b, Work Plan for Additional Investigation - 365 Todd Road, Santa Rosa, California, April 18.
- _____, 2002c, Results of the 1st Quarter 2002 Monitoring Well and Domestic Well Groundwater Monitoring and Sampling Event - 365 Todd Road, Santa Rosa, California, May 9.
- _____, 2002d, Results of the 2nd Quarter 2002 Monitoring Well and Domestic Well Groundwater Monitoring and Sampling Event - 365 Todd Road, Santa Rosa, California, July 24.
- _____, 2002e, Results of the 3rd Quarter 2002 Monitoring Well and Domestic Well Groundwater Monitoring and Sampling Event - 365 Todd Road, Santa Rosa, California, October 7.
- _____, 2003a, Results of the 4th Quarter 2002 Monitoring Well and Domestic Well Groundwater Monitoring and Sampling Event - 365 Todd Road, Santa Rosa, California, January 17.
- _____, 2003b, Results of the 1st Quarter 2003 Monitoring Well and Domestic Well Groundwater Monitoring and Sampling Event - 365 Todd Road, Santa Rosa, California, April 29.
- SCDHS, 2002, Regulatory letter from D. Radford to B. Wiggins (PNEG), no additional overexcavation required at the site, June 25.

_____, 2004a, FS/CAP Directive from D. Radford to J. McCaffrey, October 27.

_____, 2004b, Personal communication from D. Radford to G. Johnson, November 30.

SCS, 2003c, Results of the 2nd Quarter 2003 Monitoring Well and Domestic Well Groundwater Monitoring and Sampling Event - 365 Todd Road, Santa Rosa, California, July 31.

_____, 2004a, Report on the Results of Additional Subsurface Investigation – 365 Todd Road, Santa Rosa, California, January 16.

_____, 2004b, Site Conceptual Model – 365 Todd Road, Santa Rosa, California, May 19.

_____, 2004c, Results of the 3rd Quarter 2004 Monitoring Well and Domestic Well Groundwater Monitoring and Sampling Event - 365 Todd Road, Santa Rosa, California, September 30.

_____, 2005a, Results of the 4th Quarter 2004 Groundwater Monitoring and Sampling Event - 365 Todd Road, Santa Rosa, California, February 25.

_____, 2005b, Feasibility Study/Corrective Action Plan, 365 Todd Road, Santa Rosa, California, September 30.

Squillace, P.J., Pankow, J.F., Korte, N.E., and Zogorski, J.S., 1998, Environmental Behavior and Fate of Methyl tert-Butyl Ether: US Geological Survey Fact Sheet FS-203-96 (Revised 2/98), 7 p.

USEPA, 1994, Symposium on Intrinsic Bioremediation of Ground Water: US Environmental Protection Agency, 189 p.

_____, 1995, How to Evaluate Alternative Cleanup Technologies for Underground Storage Tanks: US Environmental Protection Agency.

_____, 2000, Summary of Workshop on Biodegradation of MTBE: US Environmental Protection Agency, 40 p..

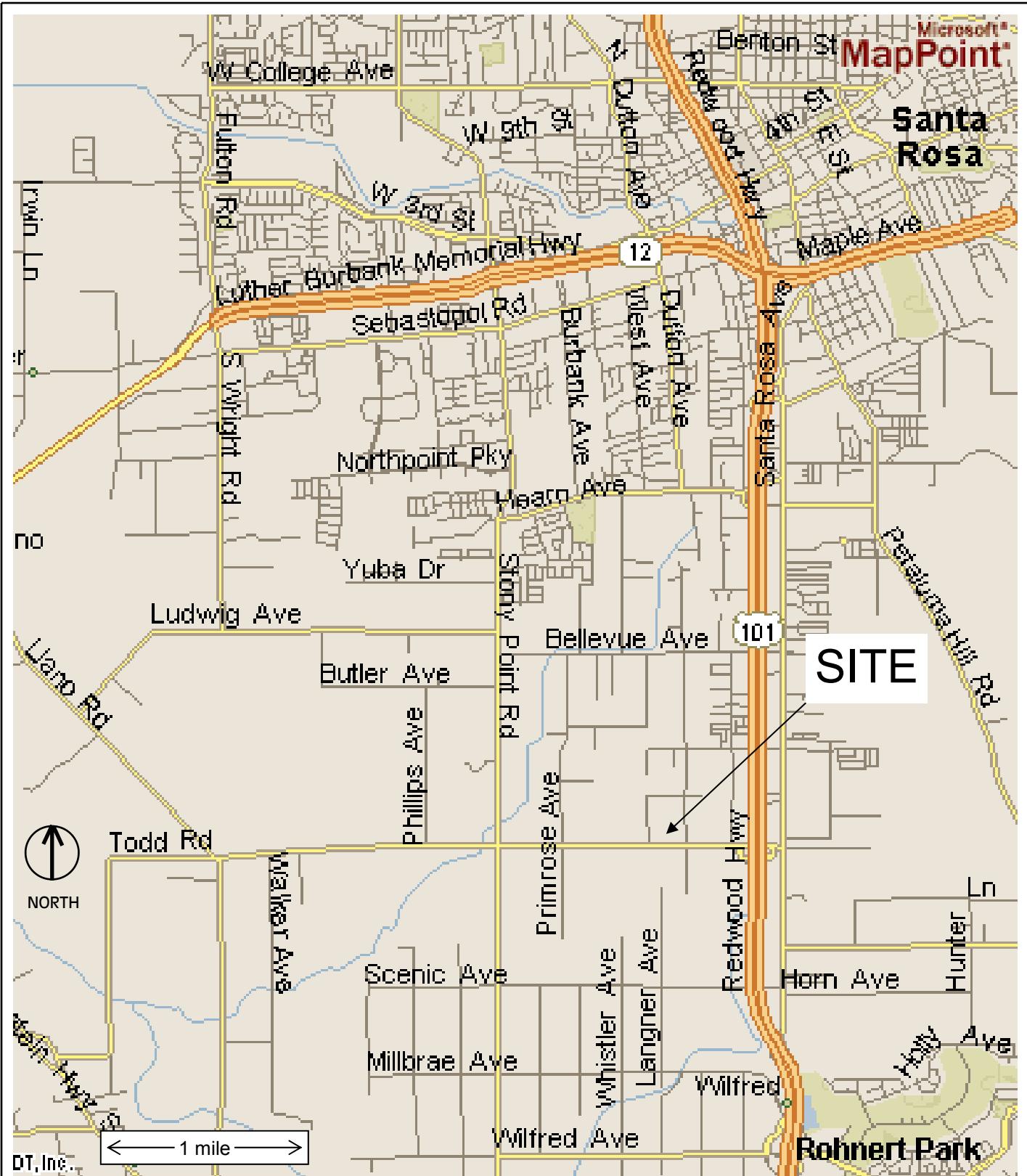
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Figures



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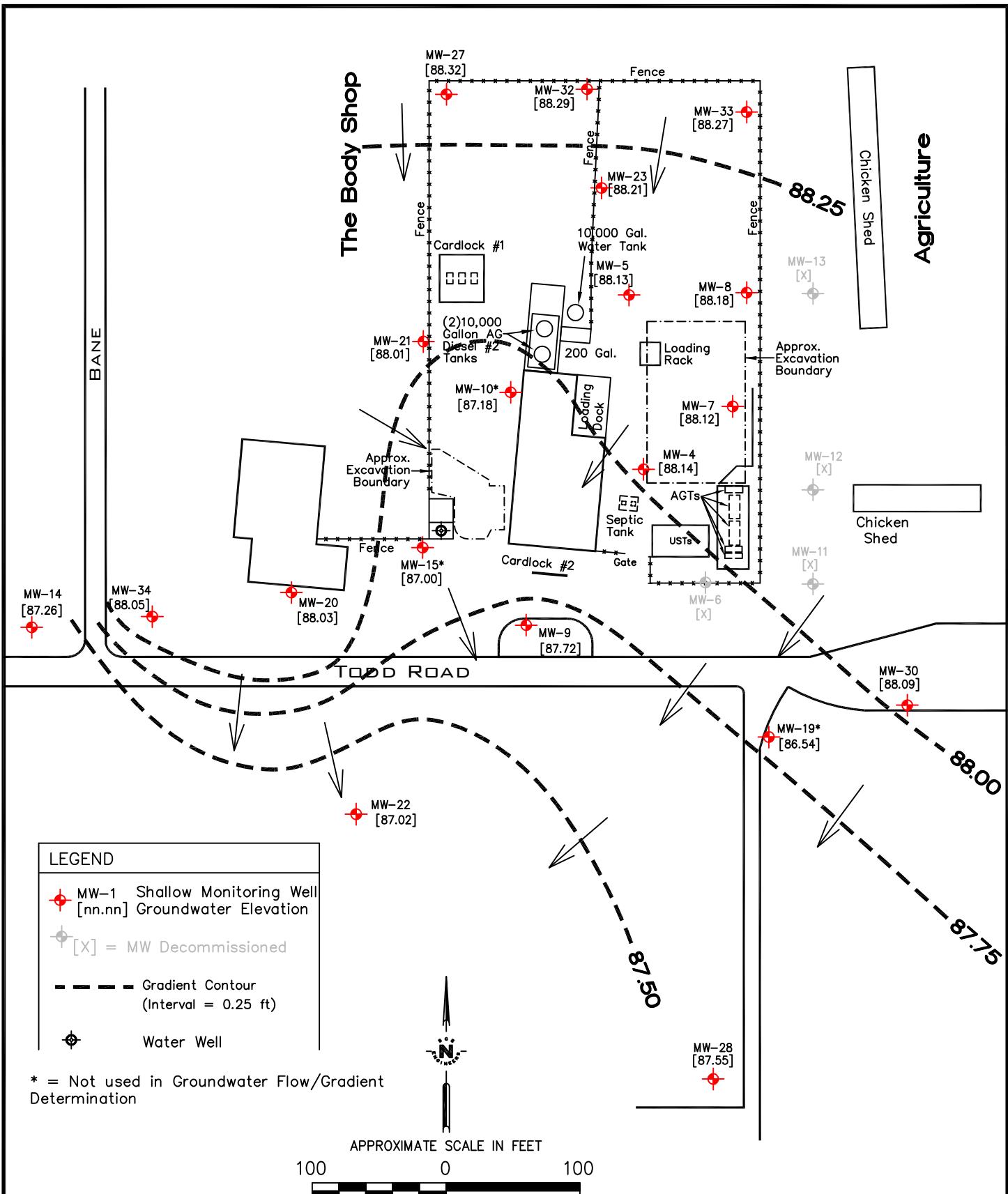
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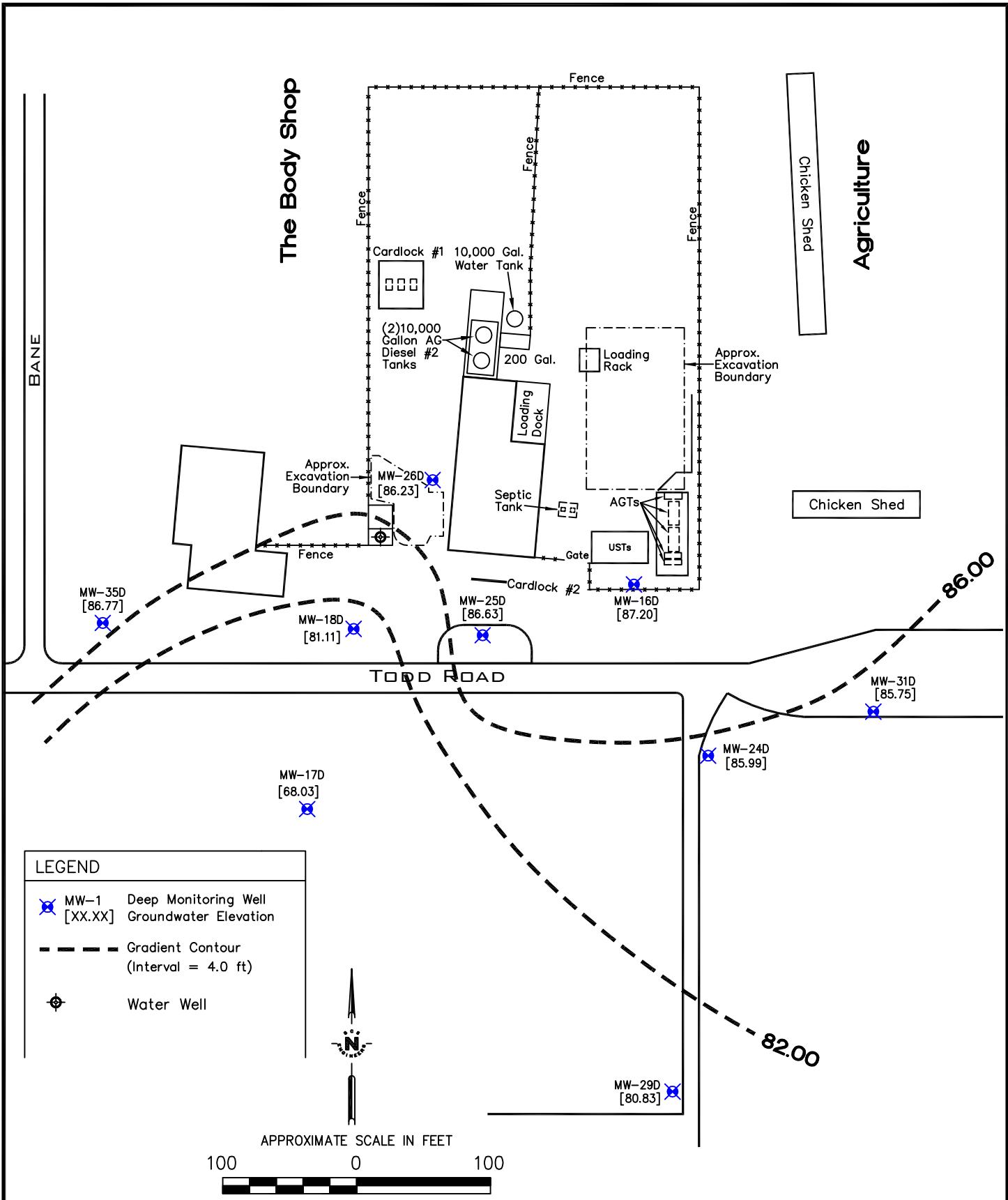
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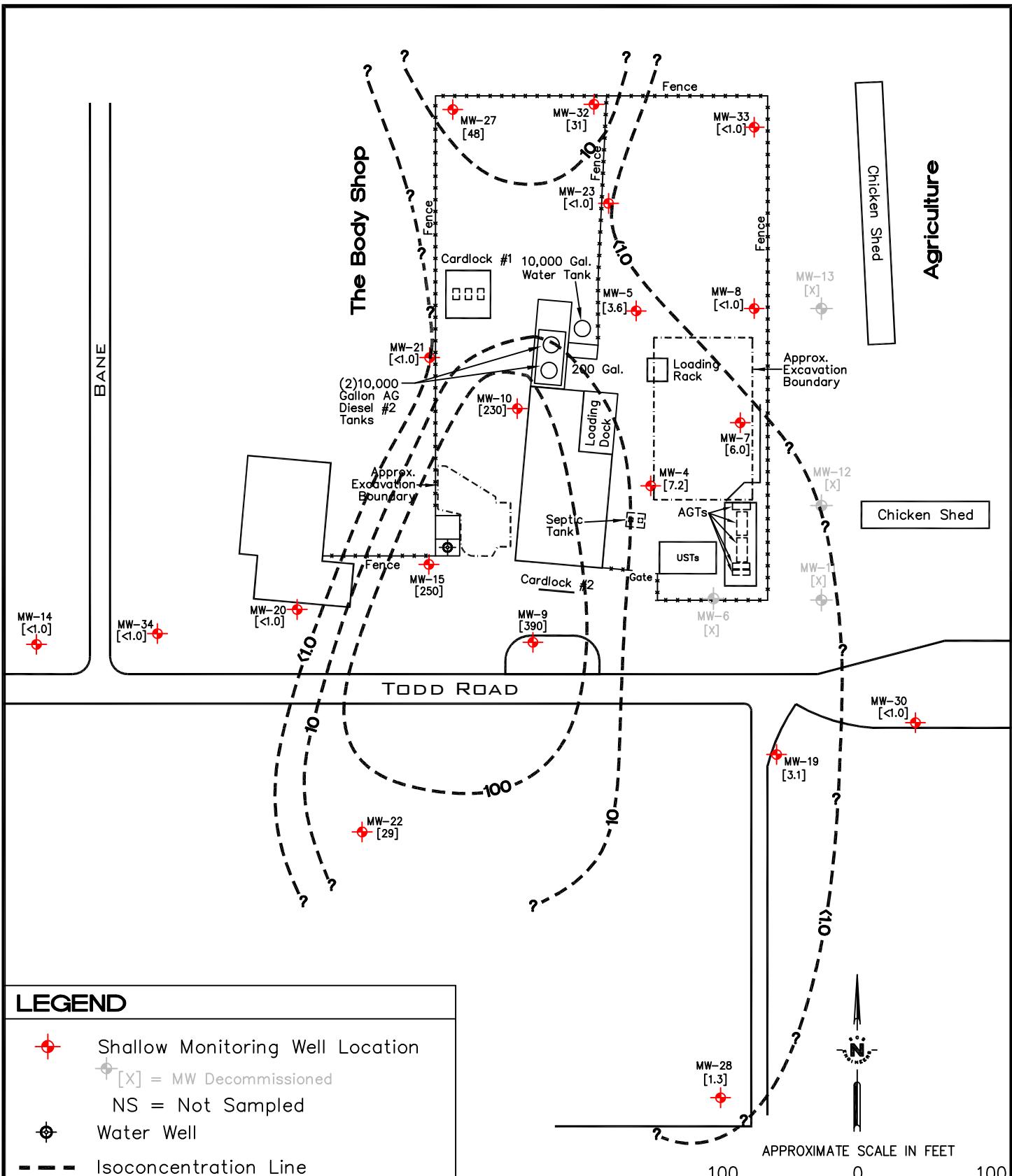
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365 Todd Road
Santa Rosa, California

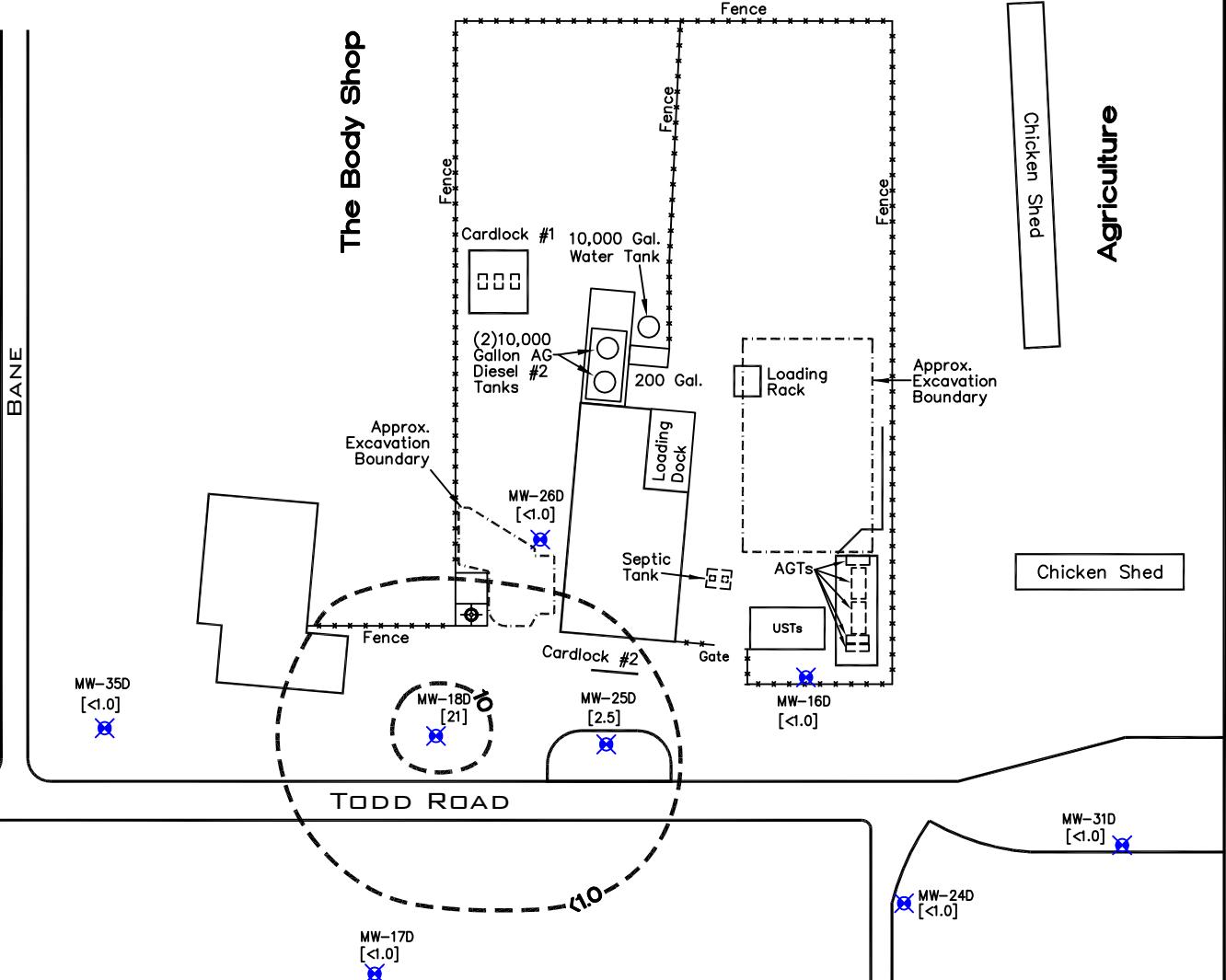
FIGURE
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LEGEND

- ☒ Deep Monitoring Well Location
- NS = Not Sampled
- ⦶ Water Well
- - - Isoconcentration Line
- MTBE, $\mu\text{g}/\text{L}$

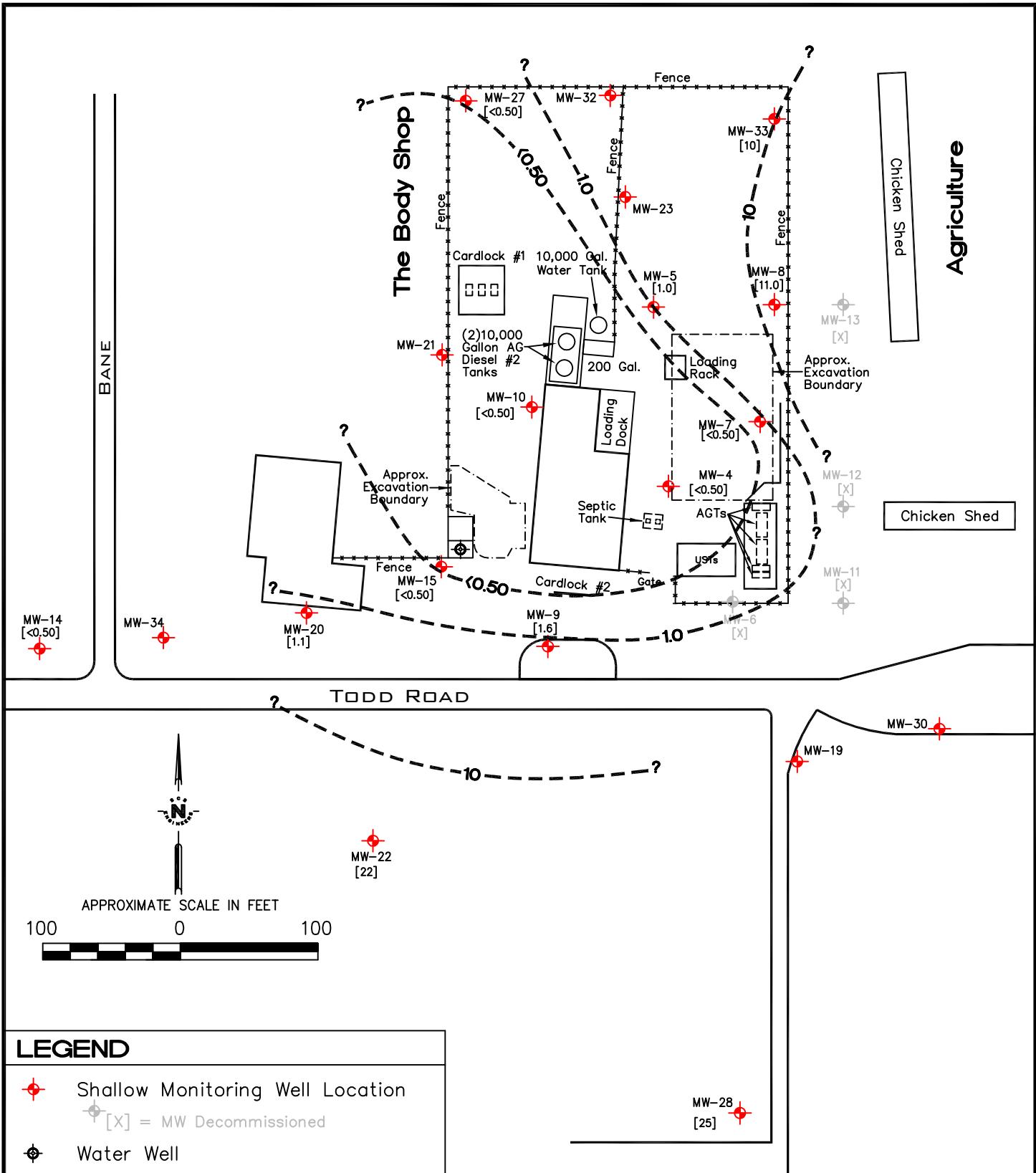
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365 TODD ROAD
SANTA ROSA, CALIFORNIA

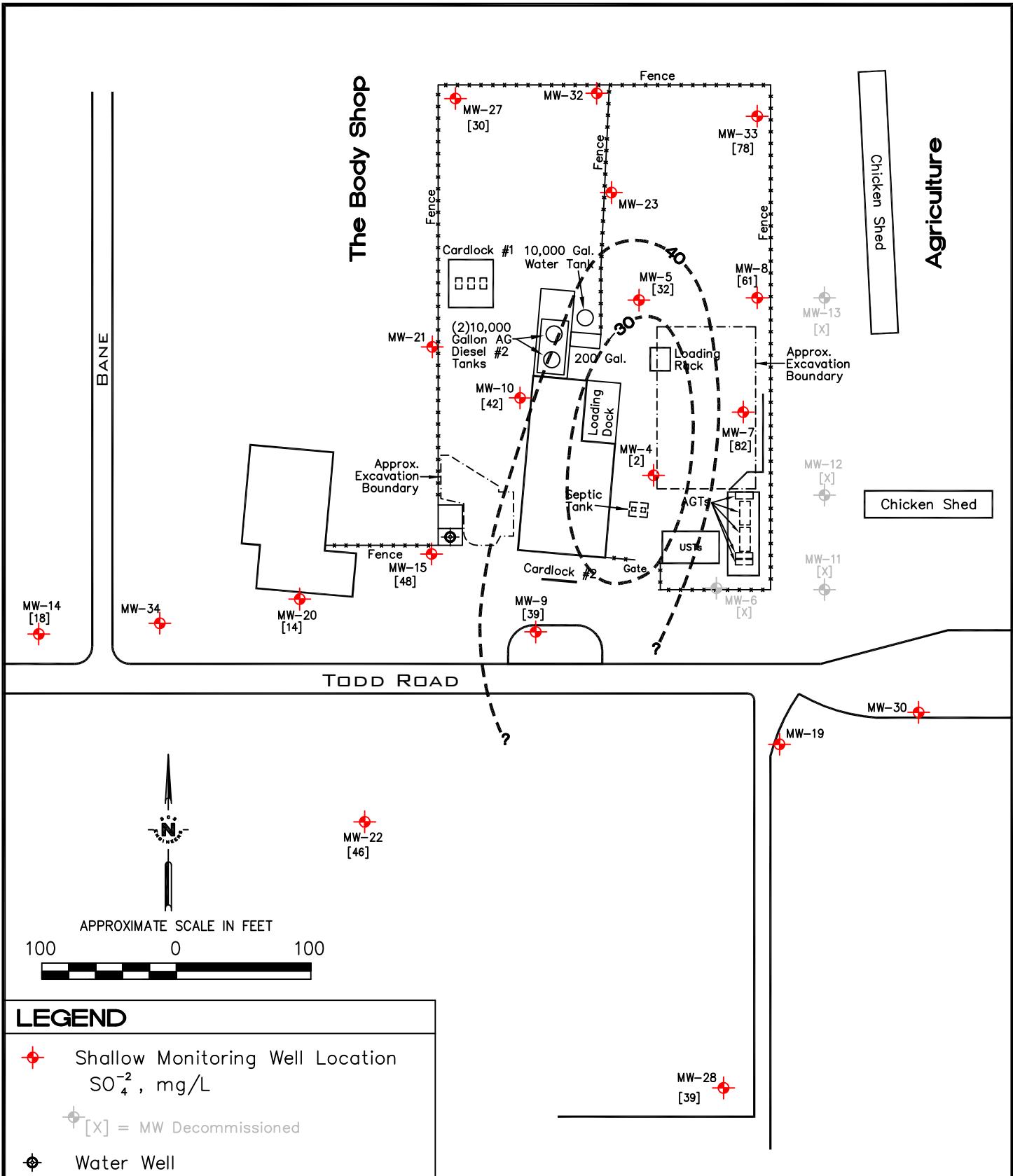
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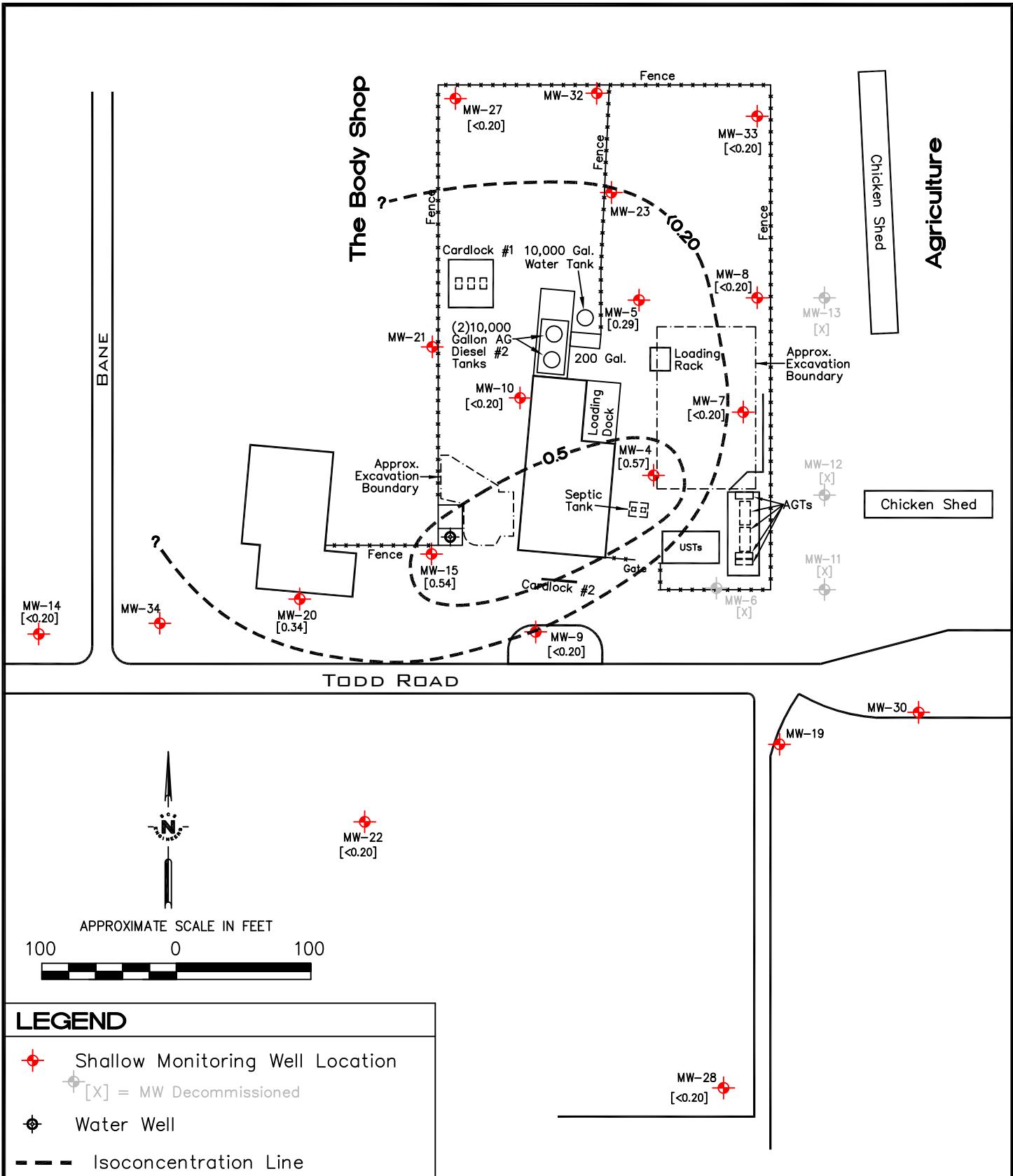
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ENVIRONMENTAL CONSULTANTS			
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LEGEND

- Shallow Monitoring Well Location
- [X] = MW Decommissioned
- Water Well
- Isoconcentration Line
NO₃⁻¹, mg/L





LEGEND

- Shallow Monitoring Well Location
- [X] = MW Decommissioned
- Water Well
- Isoconcentration Line
 Fe^{+2} , mg/L

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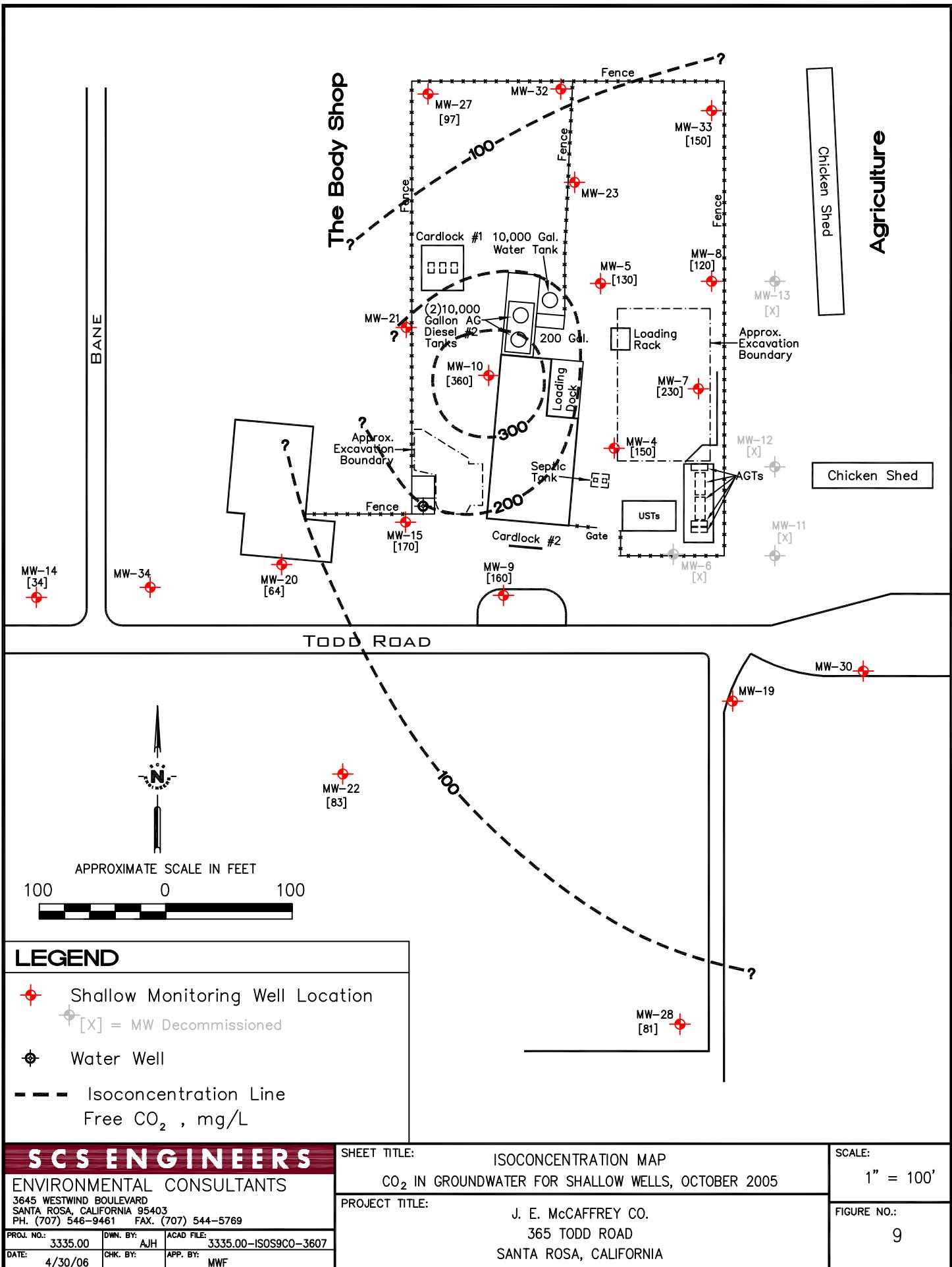
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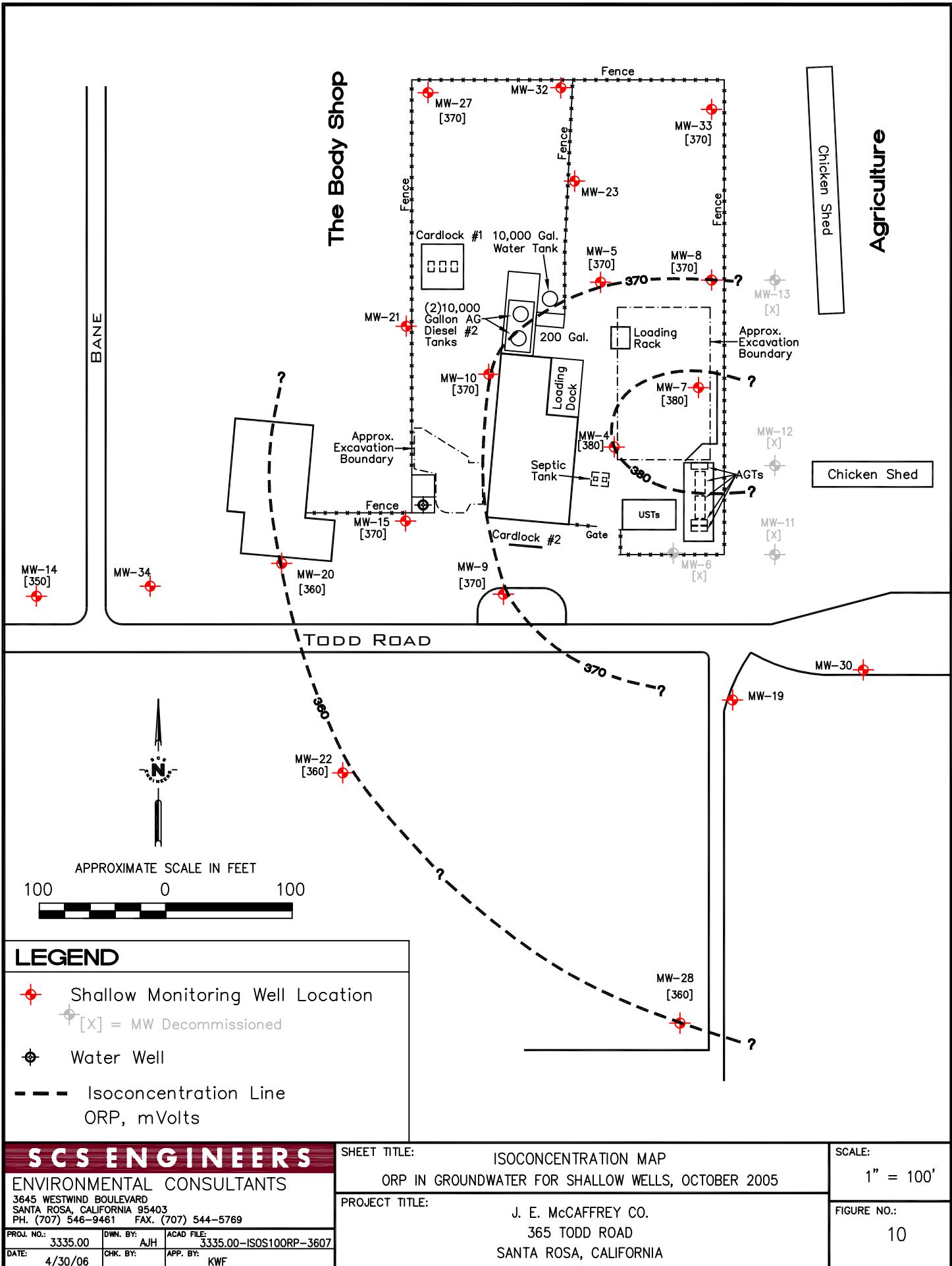
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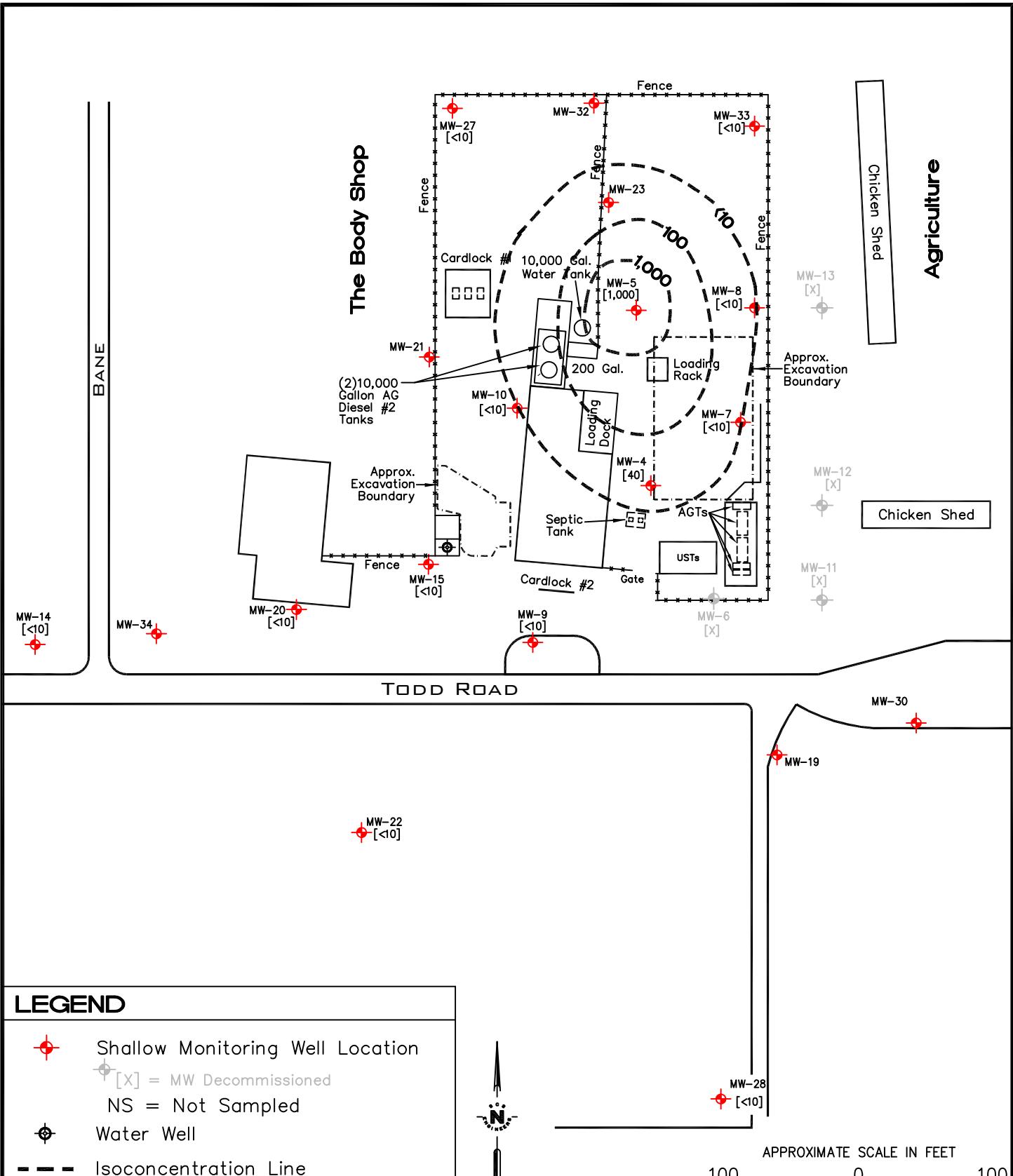
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 Fe^{+2} IN GROUNDWATER FOR SHALLOW WELLS, OCTOBER 2005

PROJECT TITLE: J. E. McCAFFREY CO.
365 TODD ROAD
SANTA ROSA, CALIFORNIA

SCALE: 1" = 100'
FIGURE NO.: 8

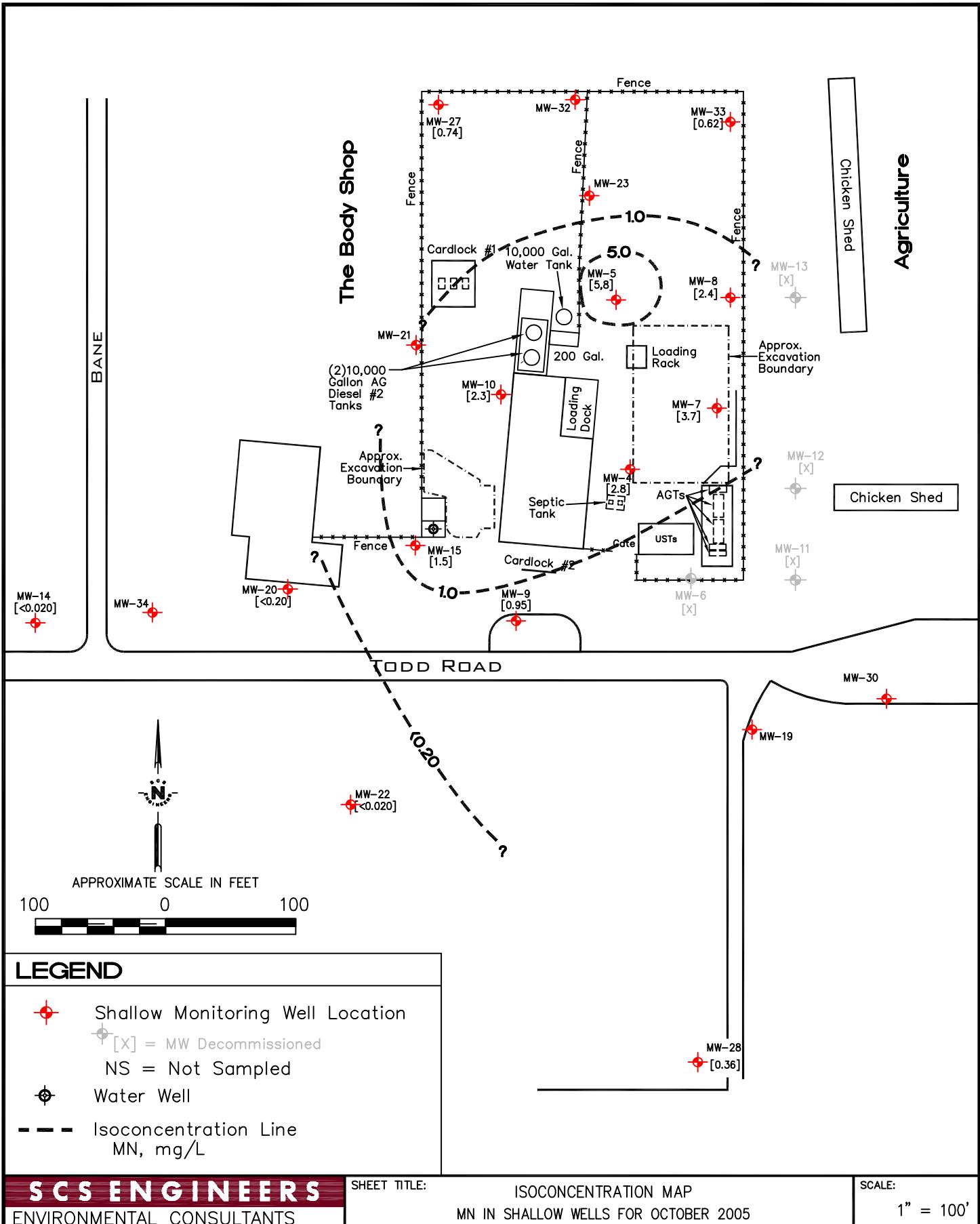


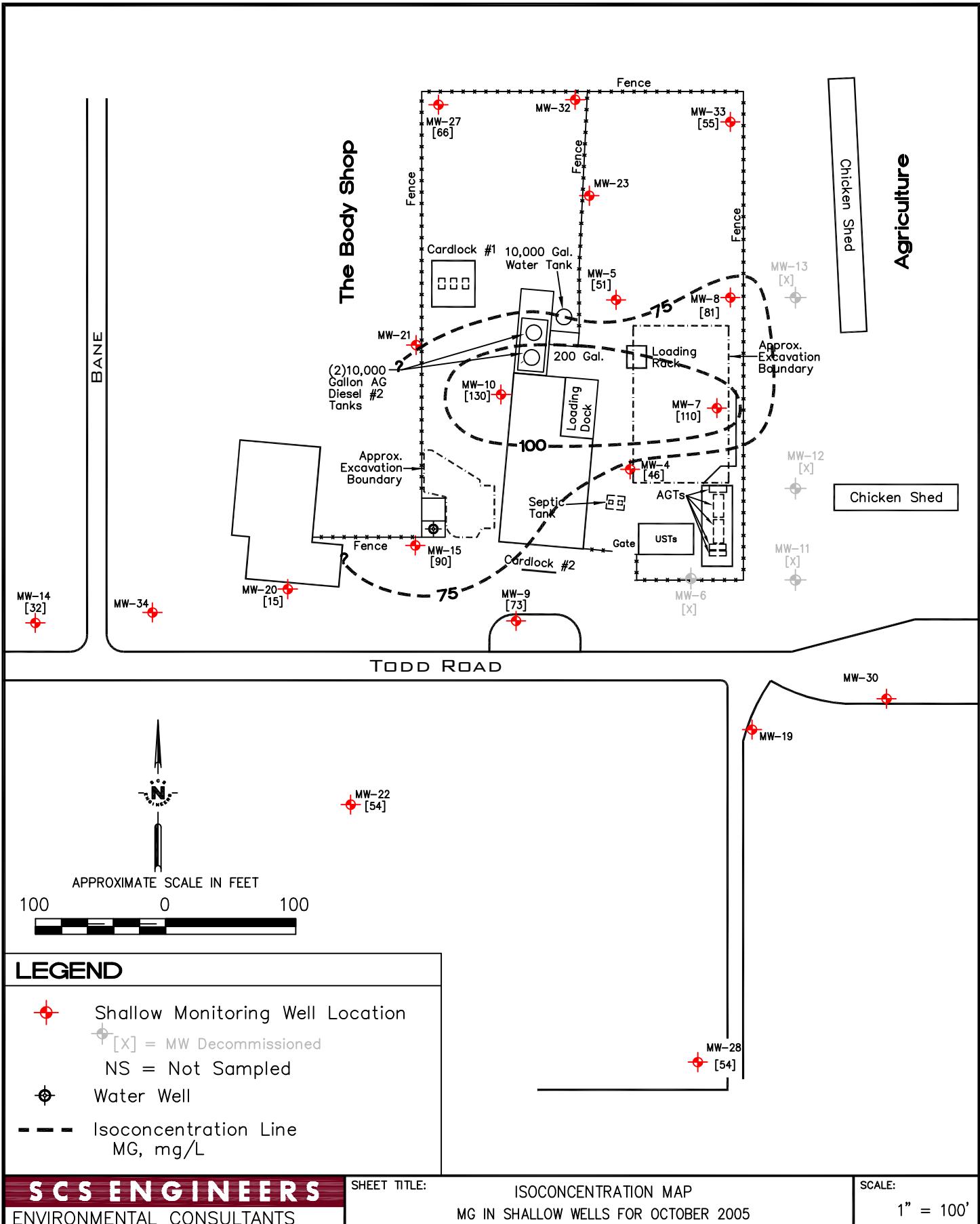


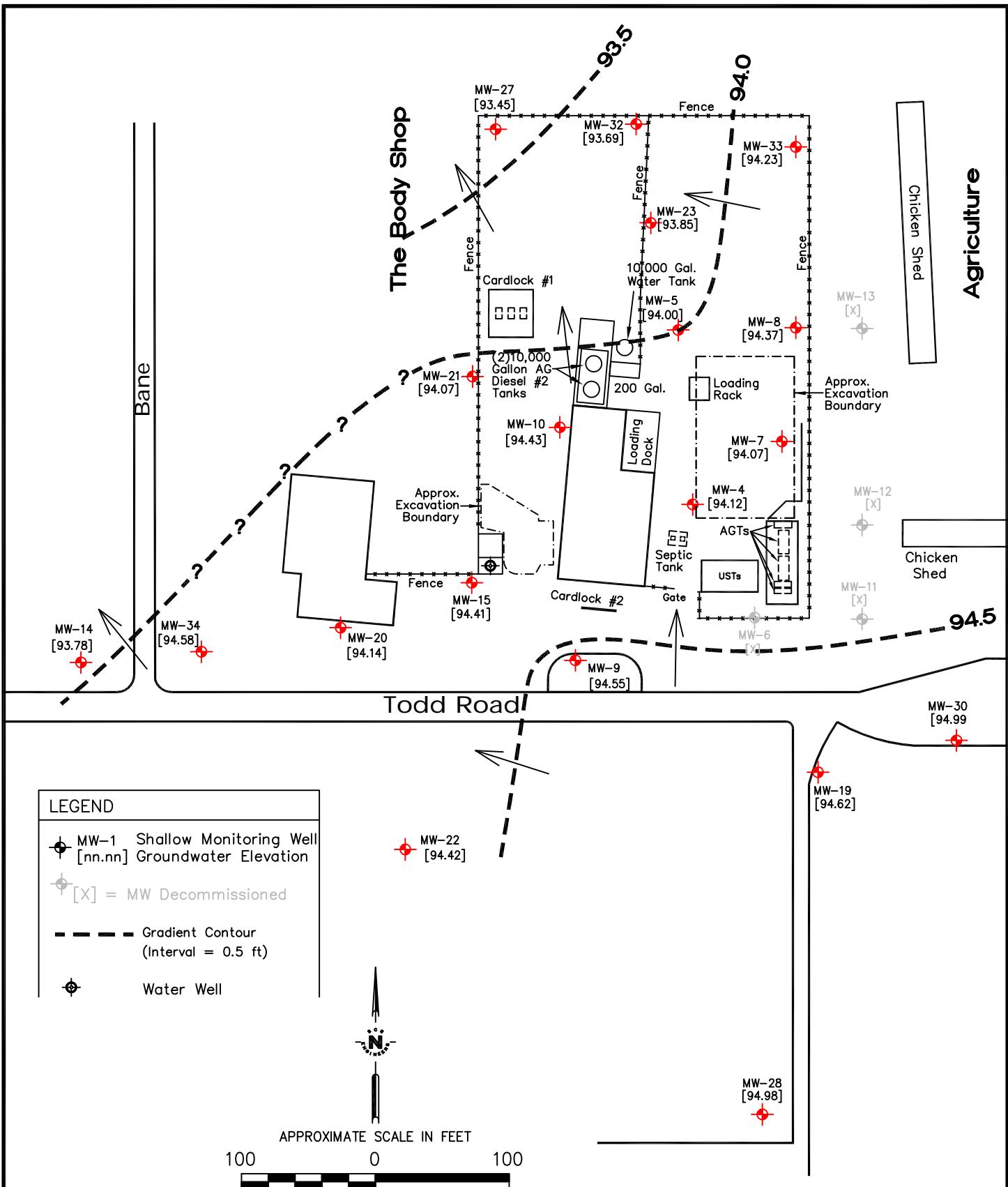


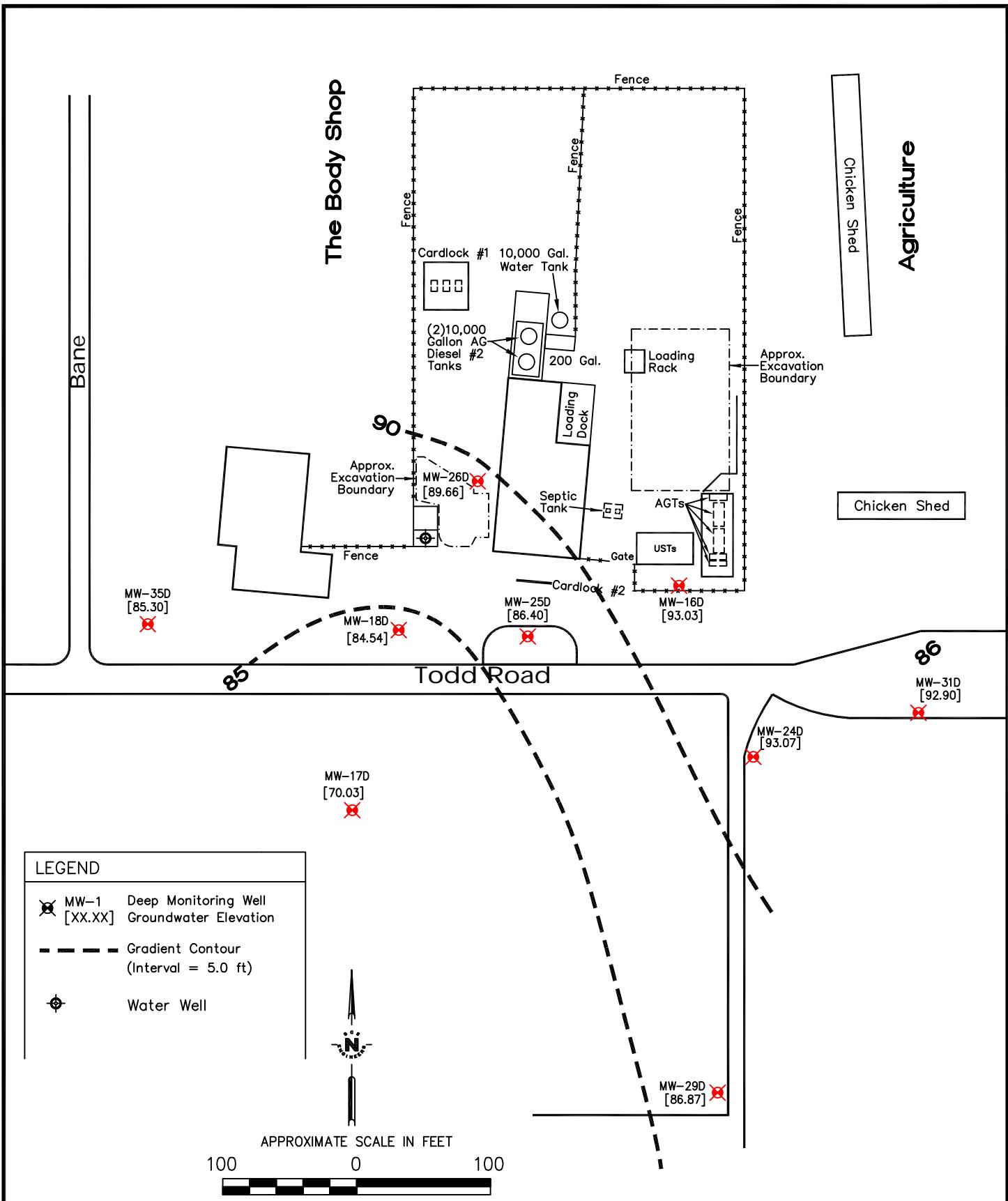
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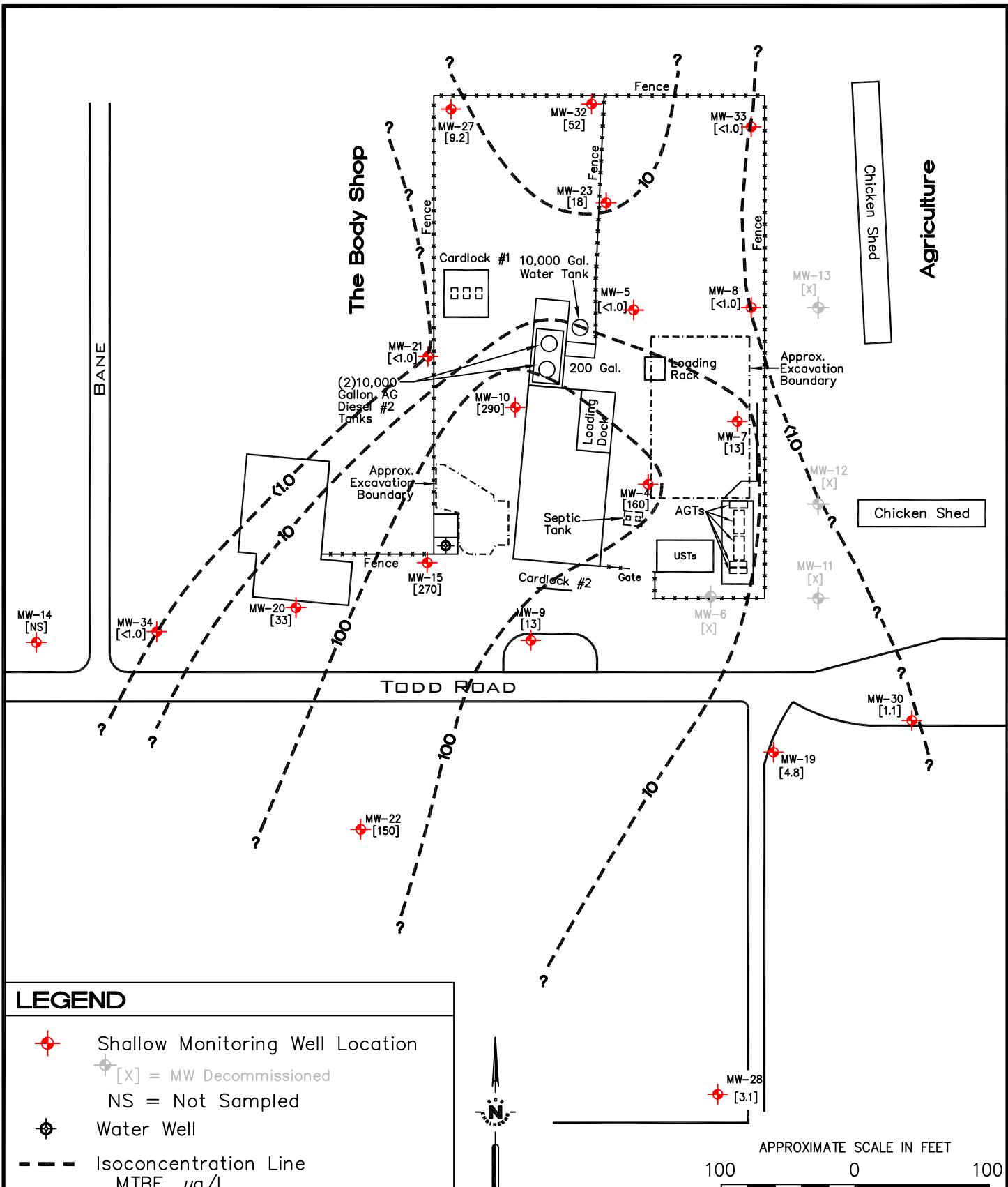
◆ Shallow Monitoring Well Location	N	APPROXIMATE SCALE IN FEET 100 0 100
◆ [X] = MW Decommissioned		
NS = Not Sampled		
◆ Water Well		
--- Isoconcentration Line Methane, $\mu\text{g}/\text{L}$		

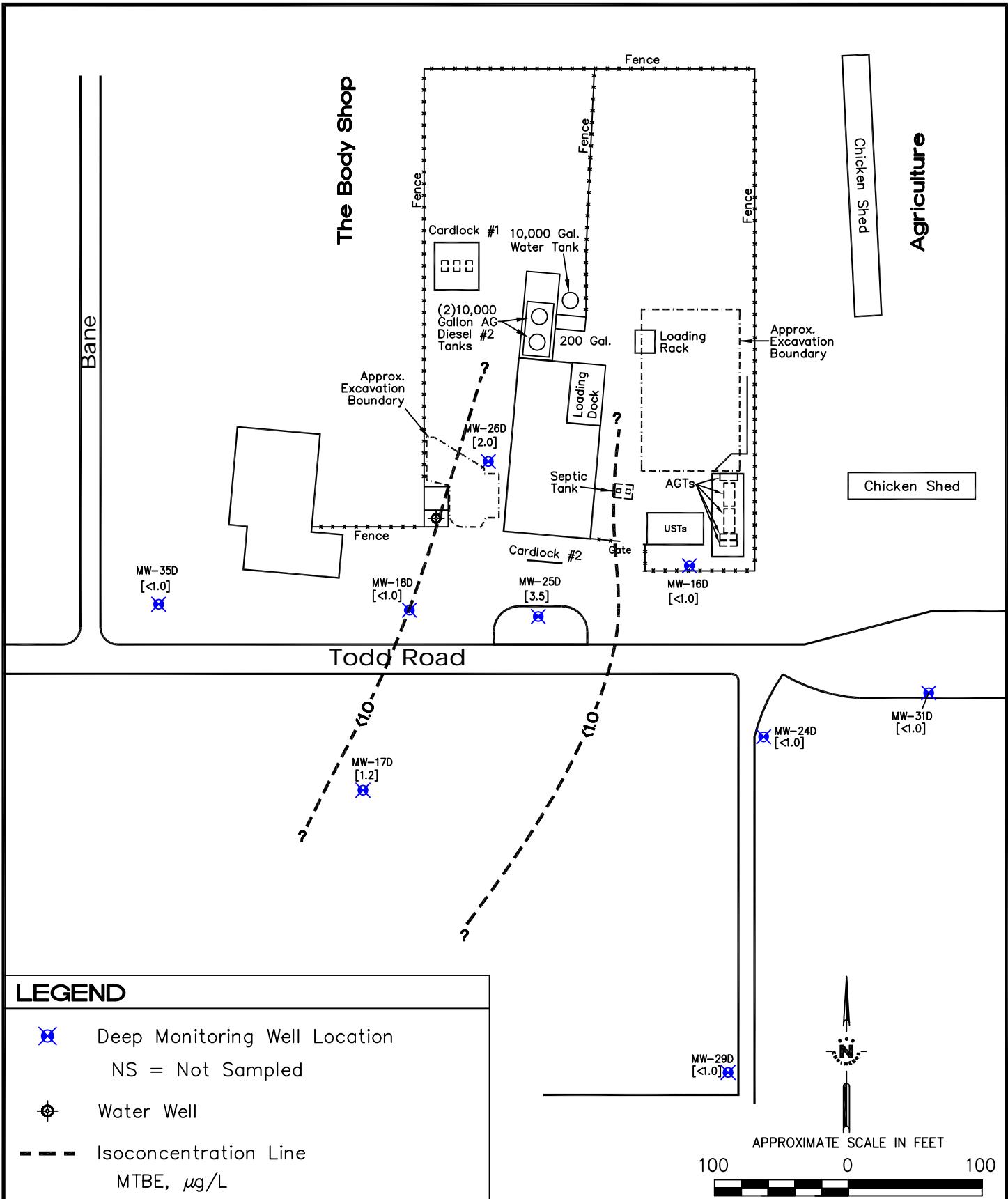












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ENVIRONMENTAL CONSULTANTS

3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA 95403
PH. (707) 546-9461 FAX. (707) 544-5769

PROJ. NO.:	3335.00	DWN. BY:	AJH	ACAD FILE:	3335.00-ISO17D-3601
DATE:	4/8/06	CHK. BY:		APP. BY:	KWF

DATE: 4/8/06	CHK. BY:	APP. BY: KWF
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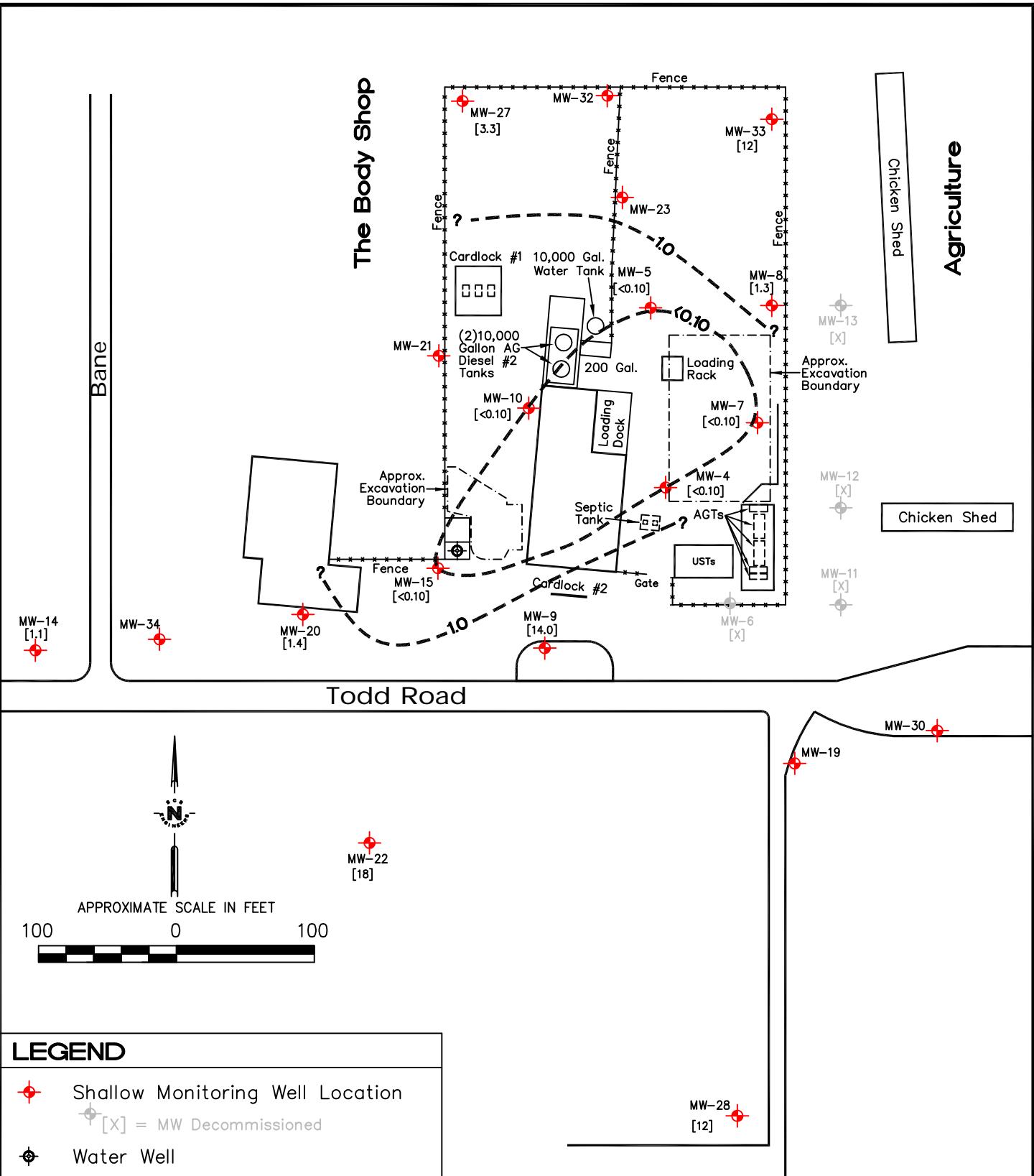
1/3/88

SHEET TITLE: ISOCONCENTRATION MAP
MTBE IN DEEP WELLS FOR JANUARY 2006

PROJECT TITLE: J. E. McCAFFREY CO.
365 TODD ROAD
SANTA ROSA, CALIFORNIA

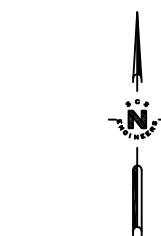
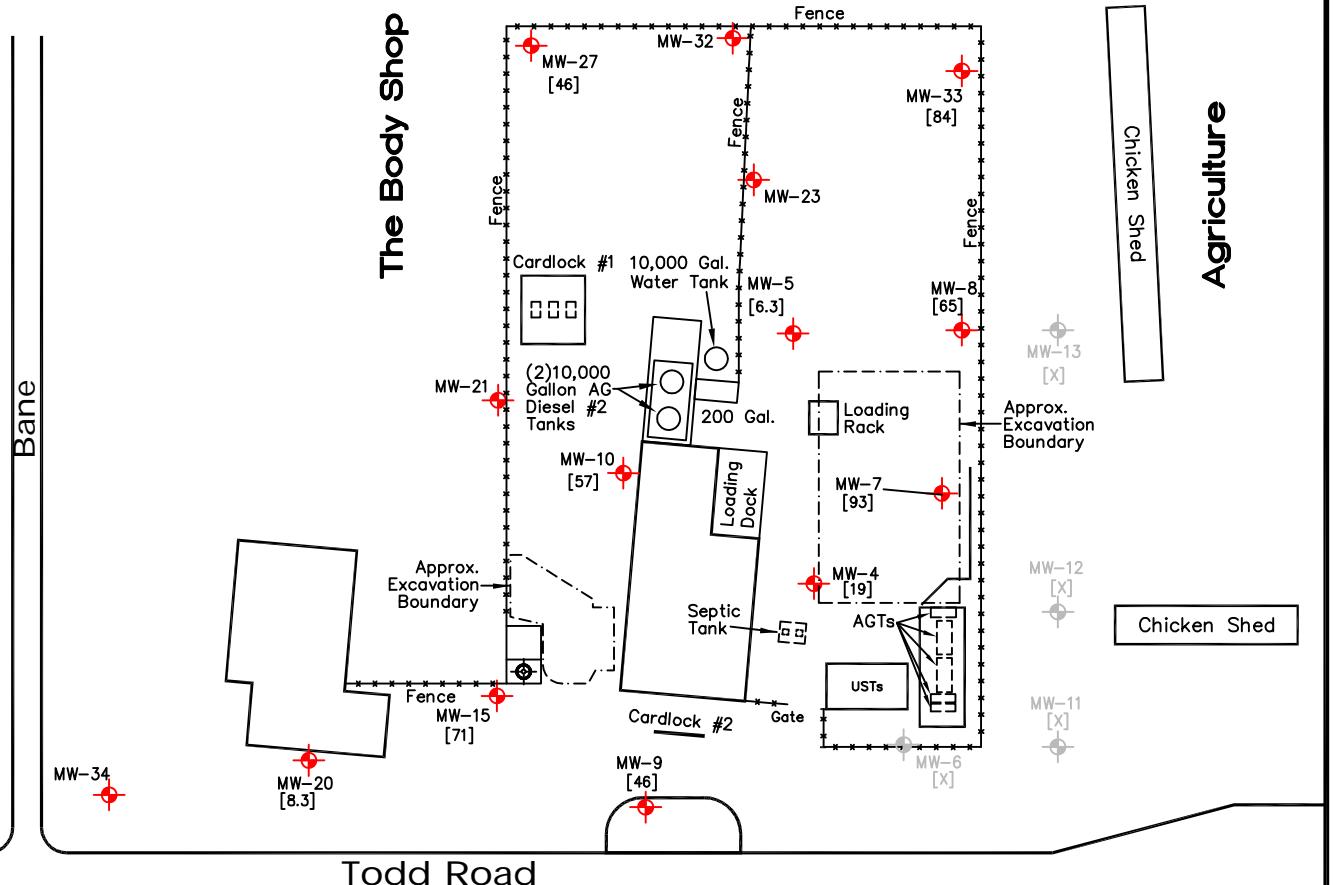
SCALE:

FIGURE NO.: 17



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3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA 95403
PH. (707) 546-9461 FAX. (707) 544-5769
PROJ. NO.: 3335.00 DWN. BY: AJH ACAD FILE: 3335.00-IS018S-3601
DATE: 4/8/06 CHK. BY: APP. BY: KWF

SHEET TITLE: NO_3^- IN GROUNDWATER FOR SHALLOW WELLS, JANUARY 2006		SCALE: 1" = 100'
PROJECT TITLE: J. E. McCAFFREY CO. 365 TODD ROAD SANTA ROSA, CALIFORNIA		FIGURE NO.: 18



APPROXIMATE SCALE IN FEET

100 0 100

LEGEND

- ◆ Shallow Monitoring Well Location SO_4^{-2} , mg/L
- ◆ [X] = MW Decommissioned
- ◆ Water Well

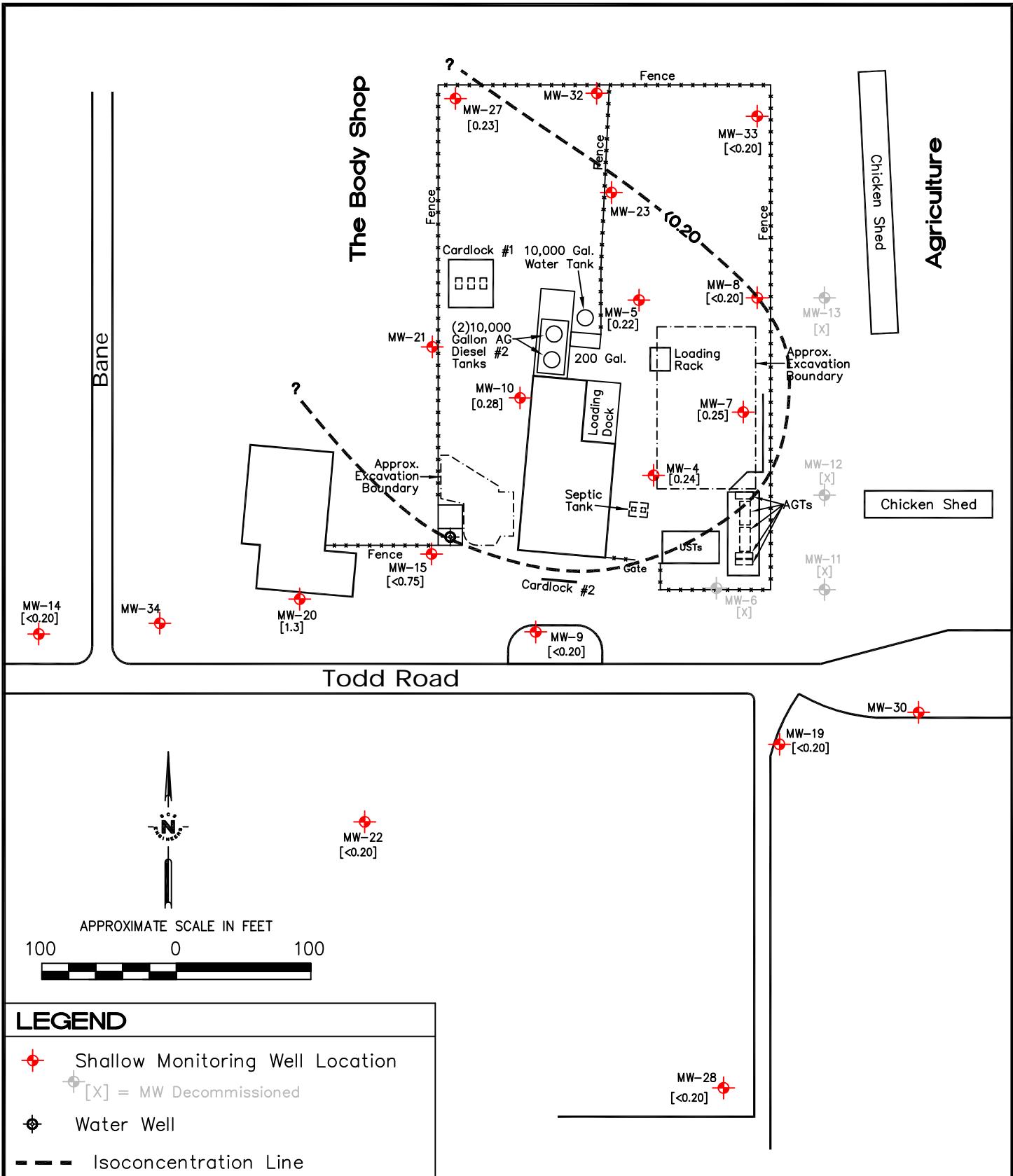
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3645 WESTWIND BOULEVARD
SANTA ROSA, CALIFORNIA 95403
PH. (707) 546-9461 FAX. (707) 544-5769

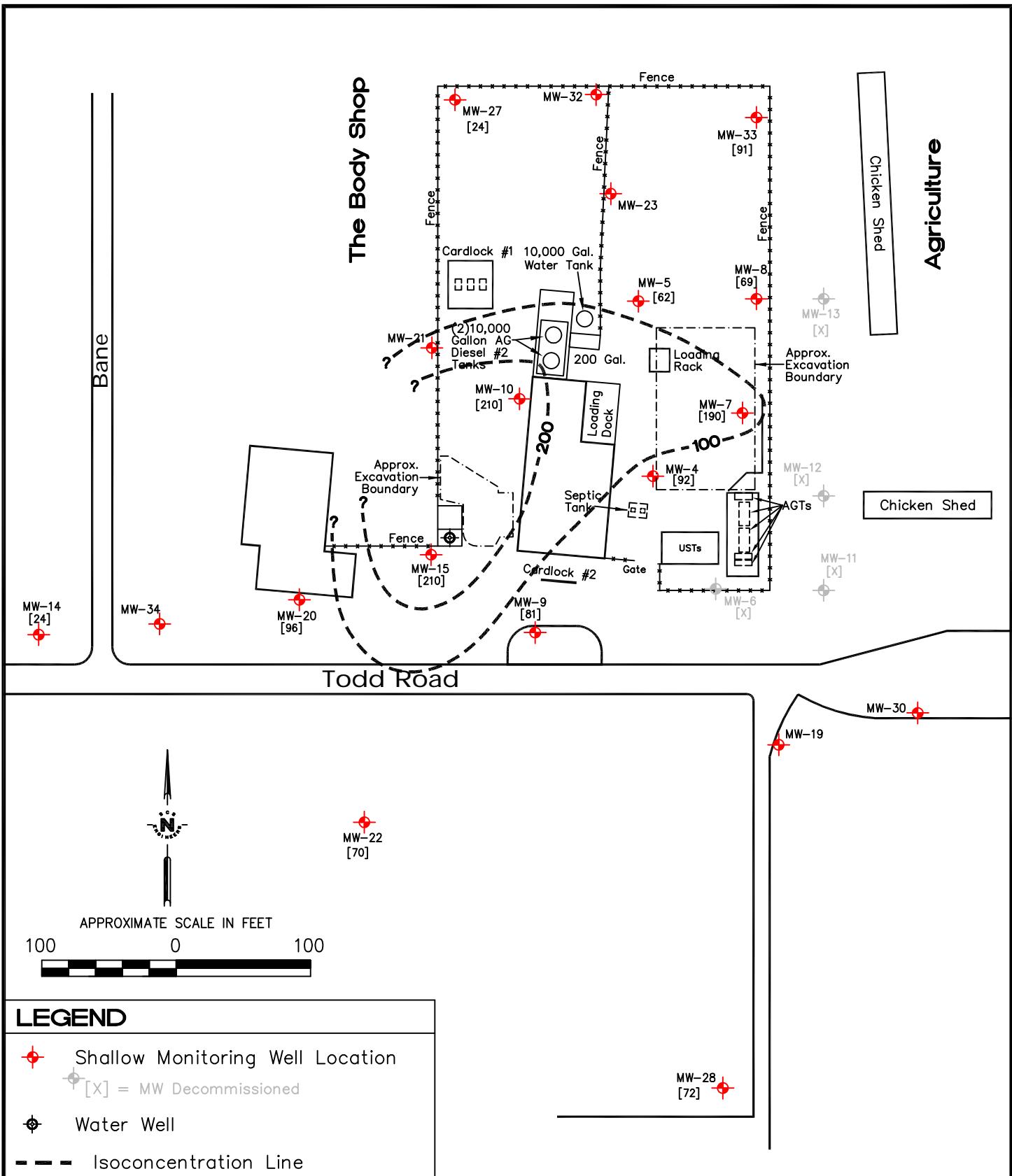
PROJ. NO.:	3335.00	DWN. BY:	AJH	ACAD FILE:	3335.00-ISO19S-3501
DATE:	4/8/06	CHK. BY:		APP. BY:	KWF

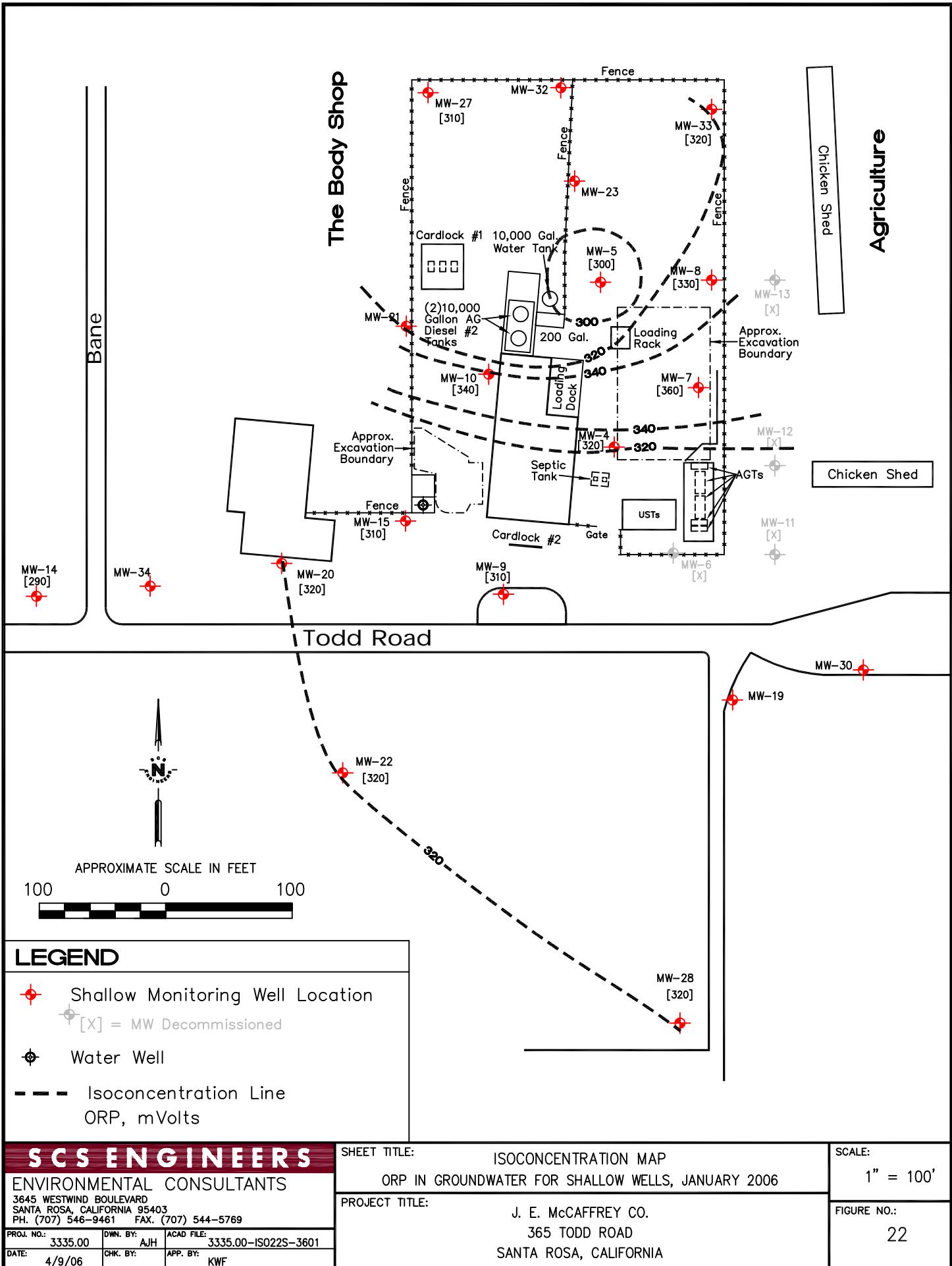
SHEET TITLE: SO_4^{-2} IN GROUNDWATER FOR SHALLOW WELLS, JANUARY 2006	SCALE: 1" = 100'
PROJECT TITLE: J. E. McCAFFREY CO. 365 TODD ROAD SANTA ROSA, CALIFORNIA	FIGURE NO.: 19

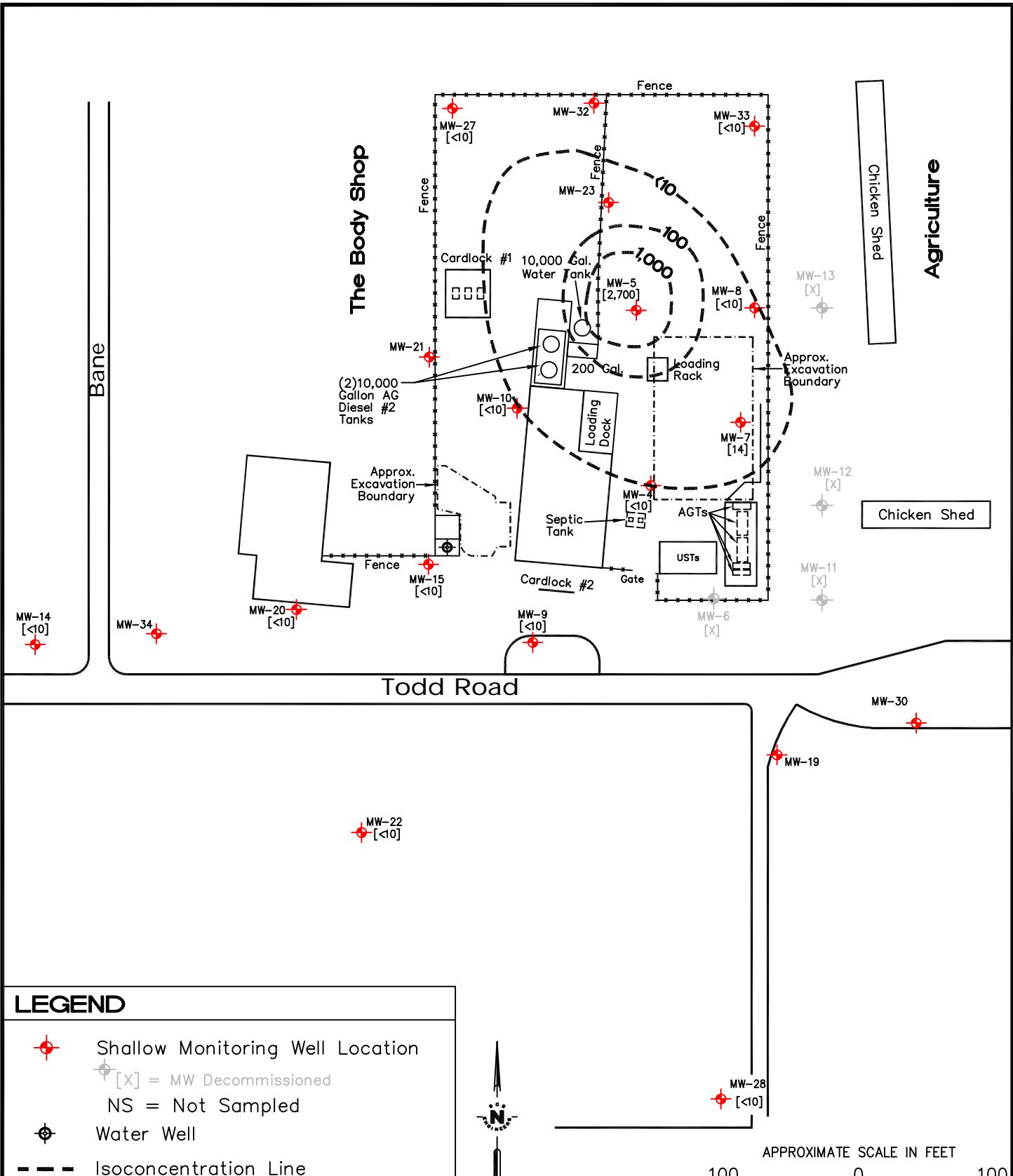


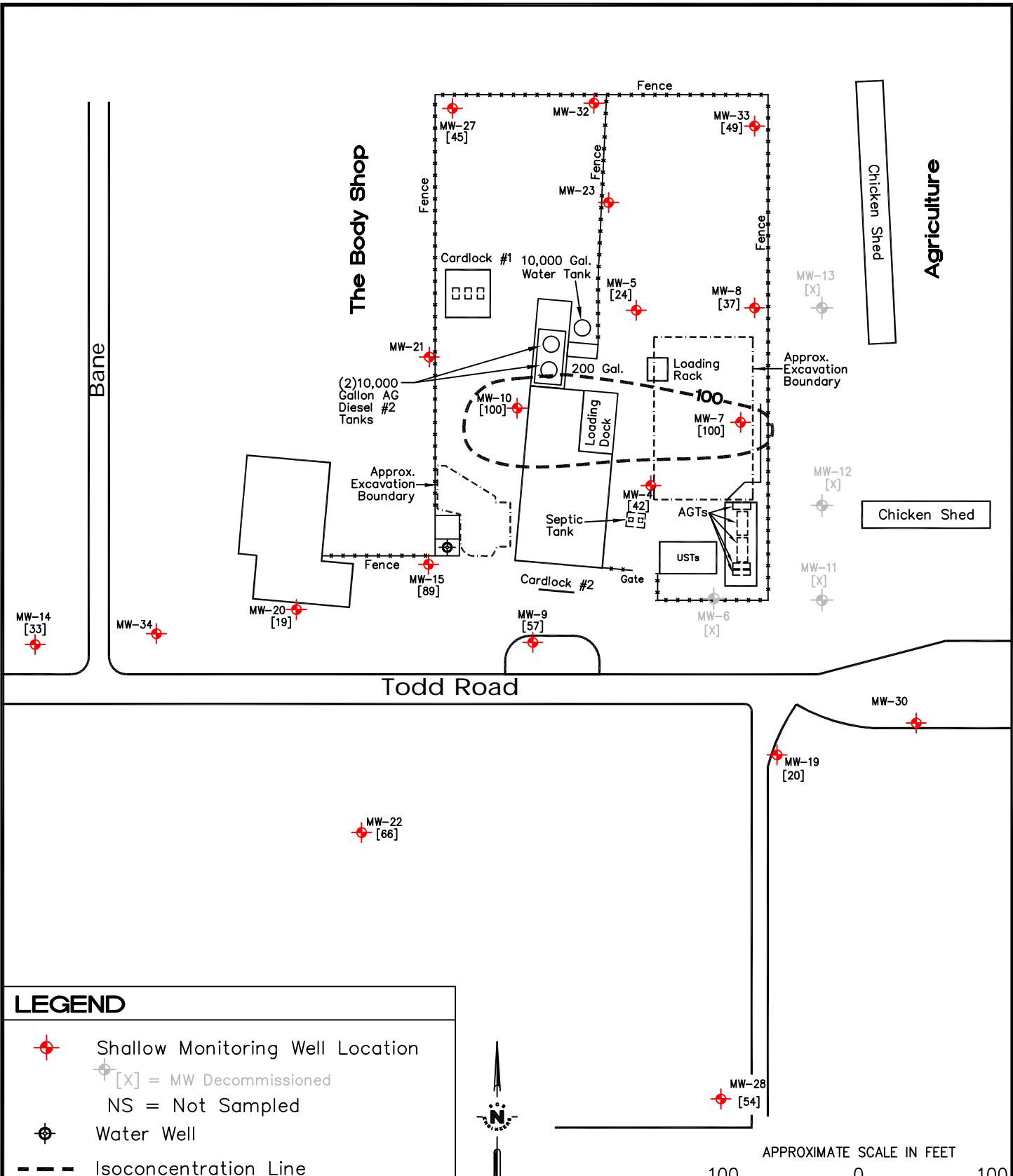
LEGEND

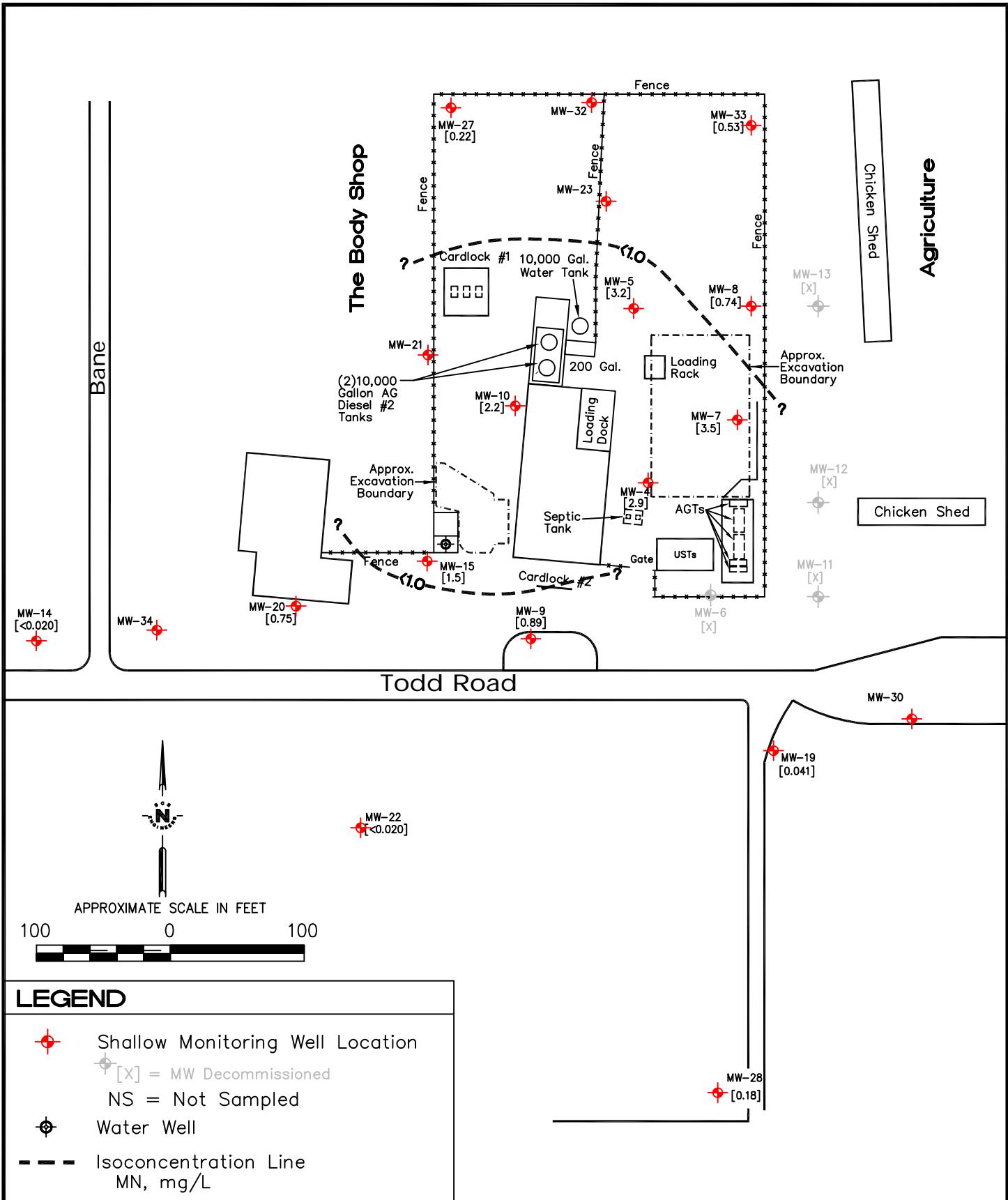
- Shallow Monitoring Well Location
- [X] = MW Decommissioned
- Water Well
- Isoconcentration Line
 Fe^{+2} , mg/L

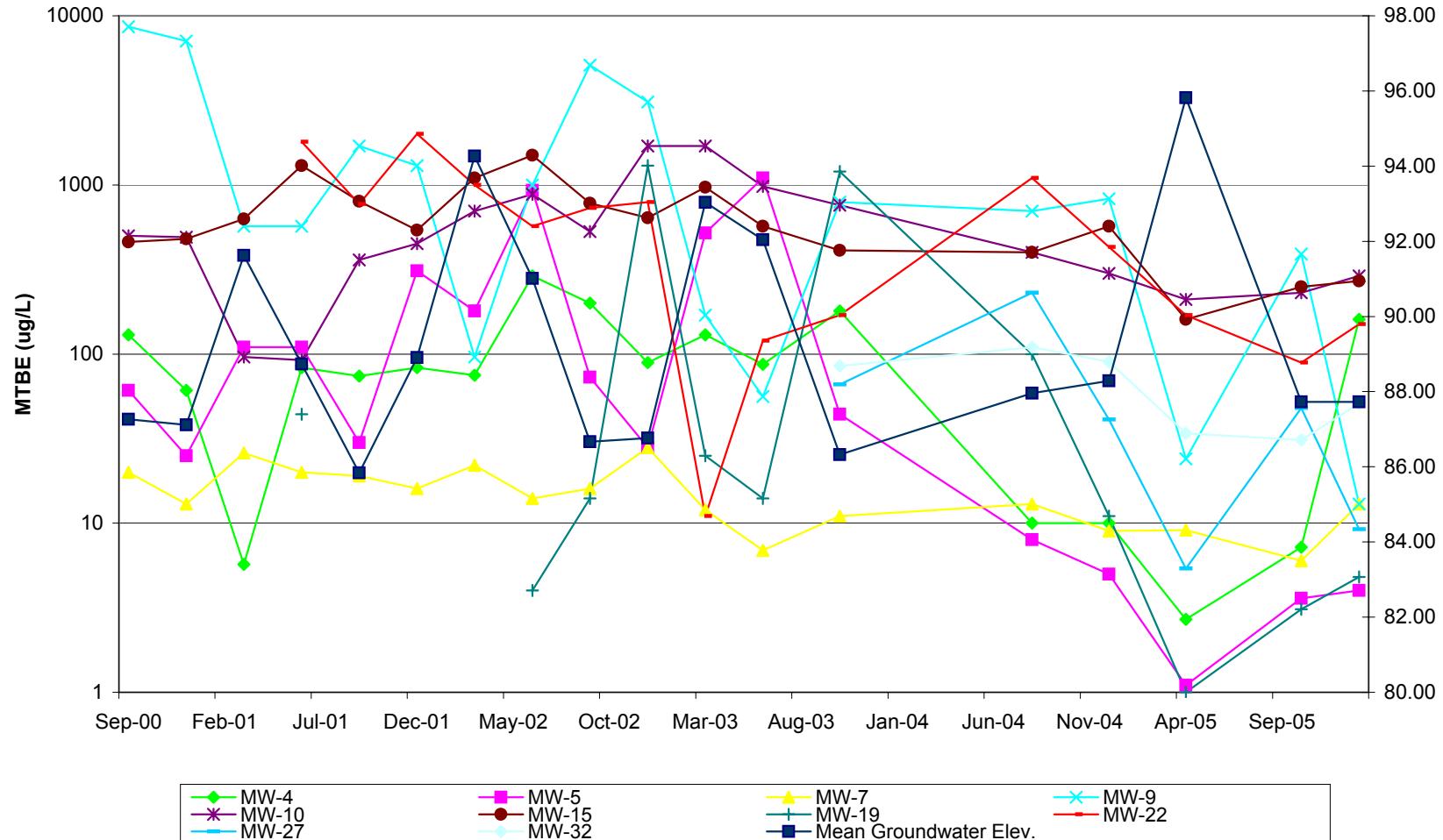












SCS ENGINEERS	MTBE & Groundwater Elevation vs. Time (Shallow Wells)	FIGURE
3645 WESTWIND BOULEVARD SANTA ROSA, CALIFORNIA PH: (707) 546-9461 FX: (707)544-5769	J.E. McCaffery Co. 365 Todd Road Santa Rosa, California	26
Drawn By: LB	File Name: MTBE in GW	DATE:
	Job Number: 01203335.00	

Tables

Table 1: Groundwater Flow Direction and Gradient - Shallow Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-4	09/05/00	99.04	11.62	87.42	South to Southwest i = 0.001
MW-5		98.98	11.50	87.48	
MW-6		97.83	10.48	87.35	
MW-7		98.52	11.10	87.42	
MW-8		98.99	11.57	87.42	
MW-9		97.78	10.83	86.95	
MW-10		98.84	11.65	87.19	
MW-11		98.42	11.14	87.28	
MW-12		97.76	10.49	87.27	
MW-13		97.64	10.20	87.44	
MW-14		98.69	11.71	86.98	
MW-15		97.71	10.71	87.00	
MW-4	12/26/00	99.04	11.92	87.12	South to Southwest i = 0.001
MW-5		98.98	11.85	87.13	
MW-6		97.83	10.76	87.07	
MW-7		98.52	11.42	87.10	
MW-8		98.99	11.83	87.16	
MW-9		97.78	10.99	86.79	
MW-10		98.84	11.94	87.90	
MW-11		98.42	11.40	87.02	
MW-12		97.76	10.69	87.07	
MW-13		97.64	10.45	87.19	
MW-14		98.69	11.71	86.98	
MW-15		97.71	10.88	86.83	
MW-4	03/20/01	99.04	7.56	91.48	Variable i = 0.004
MW-5		98.98	7.62	91.36	
MW-6		97.83	6.21	91.62	
MW-7		98.52	7.01	91.51	
MW-8		98.99	7.31	91.68	
MW-9		97.78	5.98	91.80	
MW-10		98.84	7.40	91.44	
MW-11		98.42	6.47	91.95	
MW-12		97.76	5.79	91.97	
MW-13		97.64	5.90	91.74	
MW-14		98.69	7.26	91.43	
MW-15		97.71	6.19	91.52	

Table 1: Groundwater Flow Direction and Gradient - Shallow Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-4	06/05/01	99.04	10.15	88.89	South-Southwest i = 0.003
MW-5		98.98	10.10	88.88	
MW-6		97.83	9.00	88.83	
MW-7		98.52	9.63	88.89	
MW-8		98.99	10.04	88.95	
MW-9		97.78	9.20	88.58	
MW-10		98.84	10.10	88.74	
MW-11		98.42	9.58	88.84	
MW-12		97.76	8.85	88.91	
MW-13		97.64	8.62	89.02	
MW-14		98.69	10.55	88.14	
MW-15		97.71	9.00	88.71	
MW-19		97.93	9.45	88.48	
MW-20		97.76	9.01	88.75	
MW-21		98.28	9.52	88.76	
MW-22		96.97	8.82	88.15	
MW-23		98.58	9.65	88.93	
MW-4	09/05/01	99.04	12.90	86.14	Southwest i = 0.005
MW-5		98.98	12.77	86.21	
MW-6		97.83	11.77	86.06	
MW-7		98.52	12.40	86.12	
MW-8		98.99	12.86	86.13	
MW-9		97.78	12.15	85.63	
MW-10		98.84	13.01	85.83	
MW-11		98.42	12.47	85.95	
MW-12		97.76	11.77	85.99	
MW-13		97.64	11.41	86.23	
MW-14		98.69	13.85	84.84	
MW-15		97.71	12.06	85.65	
MW-19		97.93	Well inaccessible		
MW-20		97.76	12.00	85.76	
MW-21		98.28	12.75	85.53	
MW-22		96.97	11.92	85.05	
MW-23		98.58	12.26	86.32	

Table 1: Groundwater Flow Direction and Gradient - Shallow Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)	
MW-4	12/05/01	99.04	10.61	88.43	N55°W i = 0.01	
MW-5		98.98	10.73	88.25		
MW-6		97.83	9.20	88.63		
MW-7		98.52	10.00	88.52		
MW-8		98.99	10.24	88.75		
MW-9		97.78	8.77	89.01		
MW-10		98.84	10.23	88.61		
MW-11		98.42	9.32	89.10		
MW-12		97.76	8.61	89.15		
MW-13		97.64	8.81	88.83		
MW-14		98.69	9.81	88.88		
MW-15		97.71	8.59	89.12		
MW-19		97.93	Well inaccessible			
MW-20		97.76	8.26	89.50		
MW-21		98.28	7.81	90.47		
MW-22	03/06/02	96.97	7.95	89.02	Westerly i = 0.001	
MW-23		98.58	10.31	88.27		
MW-4		99.04	4.75	94.29		
MW-5		98.98	4.71	94.27		
MW-6		97.83	3.51	94.32		
MW-7		98.52	4.25	94.27		
MW-8		98.99	4.65	94.34		
MW-9		97.78	3.49	94.29		
MW-10		98.84	4.70	94.14		
MW-11		98.42	4.05	94.37		
MW-12		97.76	3.36	94.40		
MW-13		97.64	3.23	94.41		
MW-14		98.69	5.08	93.61		
MW-15		97.71	3.49	94.22		
MW-19		97.93	Well inaccessible			
MW-20		97.76	3.73	94.03		
MW-21		98.28	3.25	95.03		
MW-22		96.97	2.92	94.05		
MW-23		98.58	4.30	94.28		

Table 1: Groundwater Flow Direction and Gradient - Shallow Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-4	06/05/02	99.04	7.97	91.07	Southerly i = 0.008
MW-5		98.98	7.91	91.07	
MW-6		97.83	6.79	91.04	
MW-7		98.52	7.46	91.06	
MW-8		98.99	7.87	91.12	
MW-9		97.78	6.96	90.82	
MW-10		98.84	7.87	90.97	
MW-11		98.42	7.37	91.05	
MW-12		97.76	6.67	91.09	
MW-13		97.64	6.47	91.17	
MW-14		98.69	8.02	90.67	
MW-15		97.71	6.65	91.06	
MW-19		97.93	7.20	90.73	
MW-20		97.76	6.04	91.72	
MW-21		98.28	7.20	91.08	
MW-22	09/11/02	96.97	6.57	90.40	S to SW i = 0.003
MW-23		98.58	7.49	91.09	
MW-4		99.04	12.29	86.75	
MW-5		98.98	12.16	86.82	
MW-6		97.83	11.15	86.68	
MW-7		98.52	11.77	86.75	
MW-8		98.99	12.20	86.79	
MW-9		97.78	11.51	86.27	
MW-10		98.84	12.40	86.44	
MW-11		98.42	11.80	86.62	
MW-12		97.76	11.10	86.66	
MW-13		97.64	10.76	86.88	
MW-14		98.69	13.24	85.45	
MW-15		97.71	11.11	86.60	
MW-19		97.93	11.76	86.17	
MW-20		97.76	8.48	89.28	
MW-21		98.28	12.25	86.03	
MW-22		96.97	11.29	85.68	
MW-23		98.58	11.66	86.92	

Table 1: Groundwater Flow Direction and Gradient - Shallow Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-4	12/10/02	99.04	12.63	86.41	Southerly i = 0.002
MW-5		98.98	12.58	86.40	
MW-6		97.83	11.41	86.42	
MW-7		98.52	12.11	86.41	
MW-8		98.99	12.56	86.43	
MW-9		97.78	11.28	86.50	
MW-10		98.84	12.12	86.72	
MW-11		98.42	11.98	86.44	
MW-12		97.76	11.32	86.44	
MW-13		97.64	11.13	86.51	
MW-14		98.69	12.30	86.39	
MW-15		97.71	11.05	86.66	
MW-19		97.93	11.91	86.02	
MW-20		97.76	9.37	88.39	
MW-21		98.28	7.83	90.45	
MW-22	03/11/03	96.97	10.95	86.02	Westerly i = 0.002
MW-23		98.58	12.15	86.43	
MW-4		99.04	5.97	93.07	
MW-5		98.98	5.97	93.01	
MW-6		97.83	4.70	93.13	
MW-7		98.52	5.44	93.08	
MW-8		98.99	5.82	93.17	
MW-9		97.78	4.70	93.08	
MW-10		98.84	5.97	92.87	
MW-11		98.42	5.20	93.22	
MW-12		97.76	4.50	93.26	
MW-13		97.64	4.41	93.23	
MW-14		98.69	6.16	92.53	
MW-15		97.71	4.74	92.97	
MW-19		97.93	4.82	93.11	
MW-20		97.76	4.36	93.40	
MW-21		98.28	5.83	92.45	
MW-22		96.97	3.99	92.98	
MW-23		98.58	5.57	93.01	

Table 1: Groundwater Flow Direction and Gradient - Shallow Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-4	06/11/03	99.04	6.89	92.15	Southwesterly i = 0.001
MW-5		98.98	6.85	92.13	
MW-6		97.83	5.70	92.13	
MW-7		98.52	6.32	92.20	
MW-8		98.99	6.77	92.22	
MW-9		97.78	5.91	91.87	
MW-10		98.84	6.86	91.98	
MW-11		98.42	6.27	92.15	
MW-12		97.76	5.55	92.21	
MW-13		97.64	5.37	92.27	
MW-14		98.69	7.20	91.49	
MW-15		97.71	5.68	92.03	
MW-19		97.93	6.08	91.85	
MW-20		97.76	5.07	92.69	
MW-21		98.28	6.58	91.70	
MW-22		96.97	5.47	91.50	
MW-23		98.58	6.42	92.16	
MW-4	10/29/03	99.04	12.44	86.60	Southwesterly i = 0.002
MW-5		98.98	12.34	86.64	
MW-6		97.83	11.30	86.53	
MW-7		98.52	11.93	86.59	
MW-8		98.99	12.35	86.64	
MW-9		97.78	11.70	86.08	
MW-10		98.84	12.53	86.31	
MW-11		98.42	11.95	86.47	
MW-12		97.76	11.27	86.49	
MW-13		97.64	10.93	86.71	
MW-14		98.69	13.34	85.35	
MW-15		97.71	11.55	86.16	
MW-19		97.93	11.90	86.03	
MW-20		97.76	11.24	86.52	
MW-21		98.28	12.22	86.06	
MW-22		96.97	11.45	85.52	
MW-23		98.58	11.83	86.75	
MW-27		97.83	10.90	86.93	
MW-28		96.67	10.78	85.89	
MW-30		98.20	11.89	86.31	
MW-32		98.04	11.24	86.80	
MW-33		99.63	12.85	86.78	
MW-34		96.86	11.18	85.68	

Table 1: Groundwater Flow Direction and Gradient - Shallow Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-7	08/23/04	98.52	11.11	87.41	Southeasterly i = 0.01 to 0.03
MW-20		97.76	6.47	91.29	
MW-22		96.97	10.48	86.49	
MW-27		97.83	10.07	87.76	
MW-28		96.67	25.00	71.67	
MW-30		98.20	11.05	87.15	
MW-32		98.04	10.40	87.64	
MW-33		99.63	12.01	87.62	
MW-34		96.86	5.96	90.90	
MW-4		99.04	10.75	88.29	
MW-5	12/22/04	98.98	10.71	88.27	Variable i = Variable
MW-7		98.52	10.23	88.29	
MW-8		98.99	10.57	88.42	
MW-9		97.78	9.63	88.15	
MW-10		98.84	10.57	88.27	
MW-14		98.69	10.10	88.59	
MW-15		97.71	9.41	88.30	
MW-19		97.93	9.82	88.11	
MW-20		97.76	9.18	88.58	
MW-21		98.28	9.69	88.59	
MW-22		96.97	9.38	87.59	
MW-23		98.58	10.30	88.28	
MW-27		97.83	9.65	88.18	
MW-28		96.67	8.75	87.92	
MW-30		98.20	9.82	88.38	
MW-32		98.04	9.67	88.37	
MW-33		99.63	11.20	88.43	
MW-34		96.86	6.27	90.59	

Table 1: Groundwater Flow Direction and Gradient - Shallow Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-4	04/07/05	99.04	3.02	96.02	SW i = 0.002
MW-5		98.98	3.01	95.97	
MW-7		98.52	2.53	95.99	
MW-8		98.99	2.98	96.01	
MW-9		97.78	2.03	95.75	
MW-10		98.84	3.58	95.26	
MW-14		98.69	3.23	95.46	
MW-15		97.71	1.85	95.86	
MW-19		97.93	2.19	95.74	
MW-20		97.76	2.05	95.71	
MW-21		98.28	2.06	96.22	
MW-22		96.97	1.63	95.34	
MW-23		98.58	2.63	95.95	
MW-27		97.83	1.97	95.86	
MW-28		96.67	1.08	95.59	
MW-30		98.20	2.21	95.99	
MW-32		98.04	2.09	95.95	
MW-33	10/20/05	99.63	3.62	96.01	SW i = 0.002
MW-34		96.86	1.53	95.33	
MW-4		99.04	10.90	88.14	
MW-5		98.98	10.85	88.13	
MW-7		98.52	10.40	88.12	
MW-8		98.99	10.81	88.18	
MW-9		97.78	10.06	87.72	
MW-10		98.84	10.86	87.98	
MW-14		98.69	11.43	87.26	
MW-15		97.71	10.71	87.00	
MW-19		97.93	11.39	86.54	
MW-20		97.76	8.83	88.93	
MW-21		98.28	10.27	88.01	
MW-22		96.97	9.95	87.02	
MW-23		98.58	10.37	88.21	
MW-27		97.83	9.51	88.32	
MW-28		96.67	9.12	87.55	
MW-30		98.20	10.11	88.09	
MW-32		98.04	9.75	88.29	
MW-33		99.63	11.36	88.27	
MW-34		96.86	8.83	88.03	

Table 1: Groundwater Flow Direction and Gradient - Shallow Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-4		99.04	4.92	94.12	
MW-5		98.98	4.98	94.00	
MW-7		98.52	4.45	94.07	
MW-8		98.99	4.62	94.37	
MW-9		97.78	3.23	94.55	
MW-10		98.84	4.41	94.43	
MW-14		98.69	4.91	93.78	
MW-15		97.71	3.30	94.41	
MW-19		97.93	3.31	94.62	
MW-20		97.76	3.62	94.14	
MW-21		98.28	4.21	94.07	
MW-22		96.97	2.55	94.42	
MW-23		98.58	4.73	93.85	
MW-27		97.83	4.38	93.45	
MW-28		96.67	1.69	94.98	
MW-30		98.20	3.21	94.99	
MW-32		98.04	4.35	93.69	
MW-33		99.63	5.40	94.23	
MW-34		96.86	2.28	94.58	

Note: MW-11, MW-12, and MW-13 were decommissioned on December 1, 2004.

NW
i = 0.003

Table 2: Groundwater Flow Direction and Gradient - Deep Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-16D	06/05/01	97.89	10.23	87.66	Southwest i = 0.08
MW-17D		97.00	32.14	64.86	
MW-18D		97.48	18.65	78.83	
MW-15D* (MW-24D)		97.77	11.47	86.30	
MW-16D	09/05/01	97.89	13.55	84.34	S65°W i = 0.06
MW-17D		97.00	25.73	71.27	
MW-18D		97.48	23.36	74.12	
MW-24D		97.77	Well inaccessible		
MW-16D	12/05/01	97.89	10.10	87.79	S15°W i = 0.15
MW-17D		97.00	31.21	65.79	
MW-18D		97.48	19.41	78.07	
MW-24D		97.77	Well inaccessible		
MW-16D	03/06/02	97.89	4.92	92.97	S15°W i = 0.2
MW-17D		97.00	29.71	67.29	
MW-18D		97.48	13.03	84.45	
MW-24D		97.77	Well inaccessible		
MW-16D	06/05/02	97.89	8.00	89.89	Southwest i = 0.07
MW-17D		97.00	28.75	68.25	
MW-18D		97.48	16.17	81.31	
MW-24D		97.77	9.11	88.66	
MW-16D	09/11/02	97.89	13.03	84.86	Southwest i = 0.06
MW-17D		97.00	31.23	65.77	
MW-18D		97.48	22.98	74.50	
MW-24D		97.77	14.30	83.47	
MW-16D	12/10/02	97.89	12.60	85.29	Southwest i = 0.06
MW-17D		97.00	31.28	65.72	
MW-18D		97.48	19.92	77.56	
MW-24D		97.77	14.07	83.70	
MW-16D	03/11/03	97.89	6.00	91.89	Southwest i = 0.11
MW-17D		97.00	27.03	69.97	
MW-18D		97.48	13.93	83.55	
MW-24D		97.77	6.65	91.12	
MW-16D	06/11/03	97.89	7.02	90.87	Southwesterly i = 0.06
MW-17D		97.00	26.16	70.84	
MW-18D		97.48	15.33	82.15	
MW-24D		97.77	7.92	89.85	

* The first well drilled during the most recent drilling program was designated as MW-15D. MW-15 already existed. MW-15D was redesignated as MW-24D.

Table 2: Groundwater Flow Direction and Gradient - Deep Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-16D	10/29/03	97.89	12.85	85.04	Southwesterly i = 0.1
MW-17D		97.00	34.65	62.35	
MW-18D		97.48	21.75	75.73	
MW-24D		97.77	14.30	83.47	
MW-25D		98.30	13.50	84.80	
MW-26D		98.67	13.70	84.97	
MW-29D		97.54	19.80	77.74	
MW-31D		98.32	16.67	81.65	
MW-35D		97.20	13.42	83.78	
MW-25D	08/23/04	98.30	15.40	82.90	Southerly i = 0.02
MW-26D		98.67	12.12	86.55	
MW-29D		97.54	20.06	77.48	
MW-31D		98.32	15.71	82.61	
MW-35D		97.20	10.98	86.22	
MW-16D	12/22/04	97.89	10.28	87.61	Southerly i = 0.03
MW-17D		97.00	14.95	82.05	
MW-18D		97.48	15.91	81.57	
MW-24D		97.77	11.40	86.37	
MW-25D		98.30	10.97	87.33	
MW-26D		98.67	11.07	87.60	
MW-29D		97.54	19.21	78.33	
MW-31D		98.32	12.51	85.81	
MW-35D		97.20	9.90	87.30	

Table 2: Groundwater Flow Direction and Gradient - Deep Wells
365 Todd Road, Santa Rosa, California

Well #	Date	Top of Casing Elevation (feet > msl)	Depth to Groundwater (feet)	Water Level Elevation (feet > msl)	Groundwater Flow Direction & Gradient (i)
MW-16D	04/07/05	97.89	2.55	95.34	South i = 0.02
MW-17D		97.00	0.69	96.31	
MW-18D		97.48	8.11	89.37	
MW-24D		97.77	3.51	94.26	
MW-25D		98.30	3.27	95.03	
MW-26D		98.67	3.56	95.11	
MW-29D		97.54	7.45	90.09	
MW-31D		98.32	4.64	93.68	
MW-35D		97.20	2.37	94.83	
MW-16D	10/20/05	97.89	10.69	87.20	South i = 0.01
MW-17D		97.00	28.97	68.03	
MW-18D		97.48	16.37	81.11	
MW-24D		97.77	11.78	85.99	
MW-25D		98.30	11.67	86.63	
MW-26D		98.67	12.44	86.23	
MW-29D		97.54	16.71	80.83	
MW-31D		98.32	12.57	85.75	
MW-35D		97.20	10.43	86.77	
MW-16D	02/17/06	97.89	4.86	93.03	South-Southwest i = 0.05
MW-17D		97.00	26.97	70.03	
MW-18D		97.48	12.89	84.59	
MW-24D		97.77	4.70	93.07	
MW-25D		98.30	11.90	86.40	
MW-26D		98.67	9.01	89.66	
MW-29D		97.54	11.67	85.87	
MW-31D		98.32	5.42	92.90	
MW-35D		97.20	11.90	85.30	

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-4	09/05/00	<50	<50	<0.3	<0.3	<0.5	<0.5	130	<0.5	<0.5	0.72	12
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	61	<0.5	<0.5	<0.5	<10
	03/20/01	<50	<50	<0.3	<0.3	<0.5	<0.5	5.7	<0.5	<0.5	<0.5	<10
	06/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	83	<0.5	<0.5	<0.5	<10
	09/06/01	<50	<57	<0.3	<0.3	<0.5	<0.5	74	<0.5	<0.5	<0.5	<10
	12/07/01	<50	<50	<0.3	<0.3	<0.5	<0.5	83	<0.5	<0.5	<0.5	<10
	03/08/02	<50	<50	<0.3	<0.3	<0.5	<0.5	75	<0.5	<0.5	<0.5	<10
	06/06/02	<50	<50	<0.3	<0.3	<0.5	<0.5	290	<0.5	<0.5	17	83
	09/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	200	<0.5	<0.5	12	<10
	12/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	89	<0.5	<0.5	4.1	<10
	03/12/03	<50	<50	<1.5	<1.5	<2.5	<2.5	130	<2.5	<2.5	7.1	<50
	06/12/03	140^M	<50	1.1	16	4.1	23.6	87	<1.0	<1.0	3.5	<25
	10/31/03	190^M	<50	<5.0	<5.0	<5.0	<5.0	180	<5.0	<5.0	7.6	<100
	04/11/05	NA	<50	<1.0	<1.0	<1.0	<1.0	2.7	<1.0	<1.0	<1.0	<25
	10/20/05	<50	NA	<1.0	<1.0	<1.0	<1.0	7.2	<1.0	<1.0	<1.0	<25
	01/17/06	160^M	NA	<1.0	<1.0	<1.0	<1.0	160	<1.0	<1.0	1.2	<25
MW-5	09/05/00	<50	<50	<1.5	<1.5	<2.5	<2.5	61	<2.5	<2.5	<2.5	<25
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	25	<0.5	<0.5	<0.5	<10
	03/20/01	490	82	65	<1.5	10	<2.5	110	<2.5	<2.5	<2.5	<25
	06/06/01	77	<50	<0.3	<0.3	<0.5	<0.5	110	<0.5	<0.5	<0.5	<10
	09/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	30	<0.5	<0.5	<0.5	<10
	12/07/01	2,100	240	46	1.5	130	120	310	<0.5	<0.5	1.2	300
	03/08/02	230	150	12	<0.3	2.4	<0.5	180	<0.5	<0.5	12	49
	06/06/02	310	<50	<0.3	<0.3	<0.5	<0.5	930	<0.5	<0.5	51	140
	09/11/02	62	<50	<0.3	<0.3	<0.5	<0.5	73	<0.5	<0.5	4.2	<10
	12/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	28	<0.5	<0.5	0.96	<10
	03/12/03	140	130	<3.0	<3.0	<5.0	<5.0	520	<5.0	<5.0	34	360
	06/12/03	1,100^M	100	<50	<50	<50	<50	1,100	<50	<50	<50	<1,000
	10/31/03	<50	<50	<5.0	<5.0	<5.0	<5.0	44	<5.0	<5.0	<5.0	<100
	04/11/05	NA	<50	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<25
	10/20/05	67	NA	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<25
	01/17/06	140	NA	15	<1.0	<1.0	<1.0	4.0	<1.0	<1.0	<1.0	<25

M The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE)

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-6	09/05/00	<50	<50	<0.3	<0.3	<0.5	<0.5	96	<5.0	<5.0	<5.0	<50
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	66	<0.5	<0.5	<0.5	<10
	03/20/01	<50	<50	<0.3	<0.3	<0.5	<0.5	39	<0.5	<0.5	<0.5	<10
	06/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	66	<0.5	<0.5	<0.5	<10
	09/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	78	<0.5	<0.5	<0.5	<10
	12/07/01	<50	<50	<0.3	<0.3	<0.5	<0.5	72	<0.5	<0.5	<0.5	18
	03/07/02	<50	<50	<0.3	<0.3	<0.5	<0.5	67	<0.5	<0.5	0.51	<10
	06/06/02	<50	120	<0.3	<0.3	<0.5	<0.5	70	<0.5	<0.5	1.1	13
	09/11/02	56^N	<50	<0.3	<0.3	<0.5	<0.5	480	<0.5	<0.5	32	14
	12/11/02	67^N	<50	<0.3	<0.3	<0.5	<0.5	640	<0.5	<0.5	37	49
	03/12/03	<50	<50	<1.5	<1.5	<2.5	<2.5	140	<2.5	<2.5	14	<50
	06/12/03	70^M	<50	<1.0	<1.0	<1.0	<1.0	66	<1.0	<1.0	3.7	<25
	10/29/03	700^M	<50	<1.0	<1.0	<1.0	<1.0	74	<1.0	<1.0	1.3	620
MW-7	09/05/00	<50	<50	<0.3	<0.3	<0.5	<0.5	20	<0.5	<0.5	11	<5.0
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	13	<0.5	<0.5	<0.5	<10
	03/20/01	<50	<50	<0.3	<0.3	<0.5	<0.5	26	<0.5	<0.5	<0.5	<10
	06/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	20	<0.5	<0.5	<0.5	<10
	09/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	19	<0.5	<0.5	<0.5	<10
	12/07/01	<50	<50	<0.3	<0.3	<0.5	<0.5	16	<0.5	<0.5	<0.5	<10
	03/07/02	<50	200	<0.3	<0.3	<0.5	<0.5	22	<0.5	<0.5	<0.5	<10
	06/06/02	<50	<50	<0.3	<0.3	<0.5	<0.5	14	<0.5	<0.5	<0.5	<10
	09/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	16	<0.5	<0.5	<0.5	<10
	12/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	28	<0.5	<0.5	1.1	<10
	03/12/03	<50	140	<1.5	<1.5	<2.5	<2.5	12	<2.5	<2.5	<2.5	<50
	06/12/03	<50	<50	<1.0	<1.0	<1.0	<1.0	6.9	<1.0	<1.0	<1.0	<25
	10/29/03	<50	<50	<1.0	<1.0	<1.0	<1.0	11	<1.0	<1.0	<1.0	<25
	08/23/04	NA	NA	1.2	1.2	<1.0	<1.0	13	<1.0	<1.0	<1.0	<25
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	8.6	<1.0	<1.0	<1.0	<25
	04/12/05	NA	<50	<1.0	<1.0	<1.0	<1.0	9.1	<1.0	<1.0	<1.0	<25
	10/20/05	<50	NA	<1.0	<1.0	<1.0	<1.0	6.0	<1.0	<1.0	<1.0	<25
	01/16/06	<50	NA	<1.0	<1.0	<1.0	<1.0	13	<1.0	<1.0	<1.0	<25

M The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE)

N Results in the Gasoline Range are primarily due to a single unknown peak.

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-8	09/05/00	<50	<50	<0.3	<0.3	<0.5	<0.5	11	<0.5	<0.5	<0.5	<5.0
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	4.3	<0.5	<0.5	<0.5	<10
	03/20/01	<50	<50	<0.3	<0.3	<0.5	<0.5	4.1	<0.5	<0.5	<0.5	<10
	06/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	3.1	<0.5	<0.5	<0.5	<10
	09/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	3.0	<0.5	<0.5	<0.5	<10
	12/07/01	<50	<50	<0.3	<0.3	<0.5	<0.5	5.0	<0.5	<0.5	<0.5	<10
	03/07/02	<50	110	<0.3	<0.3	<0.5	<0.5	4.1	<0.5	<0.5	<0.5	<10
	06/06/02	<50	<50	<0.3	<0.3	<0.5	<0.5	2.7	<0.5	<0.5	<0.5	<10
	09/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<10
	12/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<10
	03/12/03	<50	<50	<0.3	<0.3	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<10
	06/12/03	<50	<50	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<25
	10/29/03	<50	<50	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<25
	04/11/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/20/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/16/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
MW-9	09/05/00	<50	<50	<3,000	<3,000	<5,000	<5,000	8,600	<5,000	<5,000	<5,000	<50,000
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	7,100	2.2	<0.5	16	60
	03/20/01	<50	<50	<15	<15	<25	<25	570	<25	<25	<25	<500
	06/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	570	ND	ND	2.2	<10
	09/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	1,700	2.5	<0.5	3.8	<10
	12/07/01	<50	<50	<0.3	<0.3	<0.5	<0.5	1,300	1.3	<0.5	3.4	11
	03/07/02	<50	<50	<0.3	<0.3	<0.5	<0.5	96	13	<0.5	0.61	<10
	06/06/02	<50	<50	<0.3	<0.3	<0.5	<0.5	1,000	19	<0.5	2.6	<10
	09/11/02	<50	120³	<3.0	<3.0	<5.0	<5.0	5,100	21	<5.0	11	<100
	12/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	3,100	6.5	<0.5	4.8	<10
	03/12/03	<50	<50	<1.5	<1.5	<2.5	<2.5	170	9.7	<2.5	<2.5	<50
	06/12/03	77^M	<50	<10	1.0	<1.0	<1.0	56	1.7	<1.0	<1.0	<25
	11/03/03	810^M	<50	<5.0	8.2	<5.0	7.3	790	7.9	<5.0	<5.0	<100
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	830	1.2	<1.0	3.6	820
	04/11/05	NA	<50	<1.0	<1.0	<1.0	<1.0	24	4.8	<1.0	<1.0	<25
	10/20/05	400	NA	<5.0	<5.0	<5.0	<5.0	390	5.1	<5.0	<5.0	<120
	01/17/06	<50	NA	<1.0	<1.0	<1.0	<1.0	13	<1.0	<1.0	<1.0	<25

M The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE)

3 The sample chromatogram contains three peaks in the diesel range whose pattern and retention times match those previously identified by GCMS as di-basic esters used in plasticizers.

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-10	09/05/00	<50	100	<30	<30	<50	<50	500	<50	<50	<50	<500
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	490	<0.5	<0.5	1.2	14
	03/20/01	<50	<50	<0.3	<0.3	<0.5	<0.5	96	<0.5	<0.5	<0.5	<10
	06/06/01	<50	<50	<0.3	0.37	<0.5	0.56	92	<0.5	<0.5	<0.5	<10
	09/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	360	<0.5	<0.5	<0.5	<10
	12/07/01 ⁴	<50	<50	<15	<15	<25	<25	450	<25	<25	<25	<500
	03/07/02	<50	<50	<0.3	<0.3	<0.5	<0.5	700	<0.5	<0.5	1.4	<10
	06/06/02	<50	<50	<0.3	<0.3	<0.5	<0.5	880	<0.5	<0.5	1.2	<10
	09/11/02	<50	<51 ³	<3.0	<3.0	<5.0	<5.0	530	<5.0	<5.0	<5.0	<100
	12/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	1,700	<0.5	<0.5	1.4	<10
	03/12/03	<50	<50	<30	<30	<50	<50	1,700	<50	<50	<50	<1,000
	06/12/03	980^M	<50	<10	<10	<10	<10	980	<10	<10	<10	<250
	10/29/03	760^M	<50	<10	<10	<10	<10	760	<10	<10	<10	<250
	04/11/05	NA	<50	<1.0	<1.0	<1.0	<1.0	210	<1.0	<1.0	<1.0	<25
	10/21/05	230	NA	<5.0	<5.0	<5.0	<5.0	230	<5.0	<5.0	<5.0	<120
	01/16/06	290^M	NA	<5.0	<5.0	<5.0	<5.0	290	<5.0	<5.0	<5.0	<120
MW-11	09/05/00	64	<50	17	<0.3	2.9	1.6	3.5	<0.5	,0.5	<0.5	<50
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	3.9	<0.5	<0.5	<0.5	<10
	03/20/01	<50	<50	<0.3	<0.3	1.1	1.8	<0.5	<0.5	<0.5	<0.5	<10
	06/06/01	<50	<50	<0.3	0.81	0.56	1.5	1.3	<0.5	<0.5	<0.5	<10
	09/06/01	460	<50	94	<0.3	6.2	<0.5	3	<0.5	<0.5	<0.5	<10
	01/09/02	Well inaccessible										
	03/08/02	<50	<50	<0.3	<0.3	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<10
	06/12/02	<50	<50	<0.3	<0.3	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<10
	09/11/02	430	<50	3.6	<3.0	15	32	<5.0	<5.0	<5.0	<5.0	<100
	12/10/02	230	<50	<0.3	<0.3	0.51	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/11/03	<50	<50	<0.3	<0.3	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<10
	06/12/03	<50	<50	1.3	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	11/03/03	83	<50	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<25

3 The sample chromatogram contains three peaks in the diesel range whose pattern and retention times match those previously identified by GCMS as di-basic esters used in plasticizers.

4 Elevated detection limits in 8260B due to matrix interference

M The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE)

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-12	09/05/00	<50	<50	<0.3	<0.3	0.99	1.8	0.59	<0.5	<0.5	<0.5	<5.0
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/20/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	09/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	01/09/02	<50	<50	<0.3	0.56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/08/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/12/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	09/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	12/10/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/11/03	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/12/03	<50	<50	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	11/03/03	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
MW-13	09/05/00	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/20/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	09/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	01/09/02	Well inaccessible										
	03/08/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/12/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	09/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	12/10/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/11/03	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/12/03	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	11/03/03	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-14	09/05/00	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0
	12/26/00	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/20/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/05/01	<50	59	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	09/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	12/07/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/07/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/06/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	09/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	12/12/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/12/03	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/12/03	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	11/03/03	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	04/12/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/21/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/17/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
MW-15	09/05/00	<50	<50	<0.3	<0.3	<0.5	<0.5	460	<0.5	<0.5	0.84	31
	12/26/00	<50	<50	<15	<15	<25	<25	480	<25	<25	<25	<500
	03/20/01	<50	<50	<0.3	<0.3	<0.5	<0.5	630	<0.5	<0.5	2.8	22
	06/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	1,300	<0.5	<0.5	2.3	<10
	09/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	800	<0.5	<0.5	1.4	<10
	12/07/01	<50	<50	<0.3	<0.3	<0.5	<0.5	540	<0.5	<0.5	0.99	<10
	03/07/02	<50	<50	<0.3	<0.3	<0.5	<0.5	1,100	<0.5	<0.5	2.7	<10
	06/06/02	<50	<50	<0.3	<0.3	<0.5	<0.5	1,500	<0.5	<0.5	1.9	<10
	09/11/02	<50	880	<0.3	<0.3	<0.5	<0.5	780	<0.5	<0.5	1.2	<10
	12/12/02	<50	<50	<0.3	<0.3	<0.5	<0.5	640	<0.5	<0.5	<0.5	<10
	03/12/03	<50	140	<30	<30	<50	<50	970	<50	<50	<50	<1,000
	06/13/03	570^M	<50	<10	<10	<10	<10	570	<10	<10	<10	<250
	11/03/03	410^M	<50	<5.0	<5.0	<5.0	<5.0	410	<5.0	<5.0	<5.0	<100
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	570	<1.0	<1.0	<1.0	<25
	04/12/05	NA	<50	<10	<10	<10	<10	160	<10	<10	<10	<250
	10/21/05	250	NA	<5.0	<5.0	<5.0	<5.0	250	<5.0	<5.0	<5.0	<120
	01/17/06	270^M	NA	<1.0	<1.0	<1.0	<1.0	270	<1.0	<1.0	<1.0	<25

M The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE)

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-16D	06/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	1.5	<0.5	<0.5	<0.5	<10
	09/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	12/07/01	<50	<50	<0.3	<0.3	<0.5	0.52	<0.5	<0.5	<0.5	<0.5	<10
	03/07/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/06/02	<50	1000	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	09/11/02	56	<51 ¹	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	12/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/12/03	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/13/03	<50	<50	1.3	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/29/03	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	04/11/05	NA	<50	<1.0	12	1.7	6.7	<1.0	<1.0	<1.0	<1.0	<25
	10/21/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/16/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
MW-17D	06/05/01	860	86	2.6	3	3.2	7.1	26	<0.5	<0.5	<0.5	<10
	09/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	23	<0.5	<0.5	<0.5	<10
	12/07/01	270	70	4.1	2.1	5.1	13	8.4	<0.5	<0.5	<0.5	<10
	03/07/02	230	68	3.2	4.8	4.7	8.9	9.1	<0.5	<0.5	<0.5	<10
	06/05/02	<50	<50	1.6	0.73	0.89	2.3	5.9	<0.5	<0.5	<0.5	<10
	09/10/02	87	71	1.3	0.72	0.56	1.3	3.8	<0.5	<0.5	<0.5	<10
	12/12/02	<50	<50	1.1	0.38	<0.5	<0.5	4.3	<0.5	<0.5	<0.5	<10
	03/12/03	50	73	0.78	<0.6	<1.0	<1.0	3.2	<1.0	<1.0	<1.0	<20
	06/13/03	<50	<50	1.1 ¹	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	<25
	11/03/03	<50	<50	<1.0	1.8	<1.0	2	1.8	<1.0	<1.0	<1.0	<25
	04/07/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/21/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<25
	01/13/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<25

1 The following additional compound was detected: Tetrahydro-Furan (c. 8.7 ug/l)

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA	
		ug/L											
MW-18D	06/05/01	<50	<50	1.2	1.3	1	1.7	190	<0.5	<0.5	<0.5	<10	
	09/05/01	<50	<50	0.53	<0.3	<0.5	<0.5	110	<0.5	<0.5	<0.5	<10	
	12/07/01	<50	68	0.3	<0.3	0.58	0.99	120	<0.5	<0.5	<0.5	<10	
	03/07/02	<50	<50	<0.3	0.62	0.62	0.84	160	<0.5	<0.5	<0.5	<10	
	06/05/02	<50	<50	<0.3	<0.3	<0.5	<0.5	270	<0.5	<0.5	<0.5	<10	
	09/10/02	<50	<50 ²	<0.3	<0.3	<0.5	<0.5	260	<0.5	<0.5	<0.5	<10	
	12/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	380	<0.5	<0.5	<0.5	<10	
	03/12/03	<50	<50	<0.3	<0.3	<0.5	<0.5	160	<0.5	<0.5	<0.5	<10	
	06/13/03	<50	<50	1.3	1.1	<1.0	<1.0	15	<1.0	<1.0	<1.0	<25	
	11/03/03	53^M	<50	<1.0	<1.0	<1.0	<1.0	53	<1.0	<1.0	<1.0	<25	
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	12	<1.0	<1.0	<1.0	<25	
	04/12/05	NA	<50	<1.0	<1.0	1	<1.0	5	<1.0	<1.0	<1.0	<25	
	10/21/05	<50	NA	<1.0	<1.0	<1.0	<1.0	21	<1.0	<1.0	<1.0	<25	
	01/17/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	
MW-19	06/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	44	<0.5	<0.5	<0.5	<10	
	09/05/01					Access obstructed by property owner							
	12/07/01					Access obstructed by property owner							
	03/07/02					Access obstructed by property owner							
	04/04/02	<50	<50	<0.3	<0.3	<0.5	<0.5	4.0	<0.5	<0.5	<0.5	<10	
	06/12/02	<50	<50	<0.3	<0.3	<0.5	<0.5	14	<0.5	<0.5	<0.5	<10	
	09/11/02	110¹	<50 ³	<0.3	<0.3	<0.5	<0.5	1,300	<0.5	<0.5	110	190	
	12/10/02	<50	<50	<0.3	<0.3	<0.5	<0.5	180	<0.5	<0.5	11	<10	
	03/11/03	<50	<50	<0.3	<0.3	<0.5	<0.5	25	<0.5	<0.5	2.0	<10	
	06/13/03	<50	<50	<1.0	1.0	<1.0	<1.0	14	<1.0	<1.0	<1.0	<25	
	10/31/03	2200	<50	<10	<10	<10	<10	1,200	<10	<10	<10	980	
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	11	<1.0	<1.0	<1.0	<25	
	04/07/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25	
	10/20/05	<50	NA	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	<25	
	01/13/06	<50	NA	<1.0	<1.0	<1.0	<1.0	4.8	<1.0	<1.0	<1.0	<25	

M The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE)

1 The following additional compound was detected: Tetrahydro-Furan (c. 8.7 ug/l)

2 The following additional compounds were detected: Chloroform (2.9 ug/l), Bromodichloromethane (2.0 ug/l), Dibromochloromethane (1.3 ug/l).

3 The sample chromatogram contains three peaks in the diesel range whose pattern and retention times match those previously identified by GCMS as di-basic esters used in plasticizers.

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-20	06/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	9.4	<0.5	<0.5	<0.5	<10
	09/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	11	<0.5	<0.5	<0.5	<10
	12/07/01	<50	<50	<0.3	0.3	<0.5	0.69	4.8	<0.5	<0.5	<0.5	<10
	03/07/02	<50	<50	<0.3	0.3	<0.5	<0.5	6.9	<0.5	<0.5	<0.5	<10
	06/06/02	<50	<50	<0.3	<0.3	<0.5	<0.5	1.4	<0.5	<0.5	<0.5	<10
	09/11/02	<50	<50 ³	<0.3	<0.3	<0.5	<0.5	0.95	<0.5	<0.5	<0.5	<10
	12/12/02	<50	<50	<0.3	<0.3	<0.5	<0.5	0.73	<0.5	<0.5	<0.5	<10
	03/12/03	<50	58	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/13/03	<50	<50	1.0	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	11/03/03	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	08/23/04	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	04/12/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/21/05	<50	NA	<1.0 ²	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/17/06	<50	NA	<1.0	<1.0	<1.0	<1.0	33	<1.0	<1.0	<1.0	<25
MW-21	06/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	ND	<0.5	<0.5	<0.5	<10
	09/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	12/07/01	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/07/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/06/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	09/11/02	<50	53	<0.3	<0.3	<0.5	<0.5	0.69	<0.5	<0.5	<0.5	<10
	12/12/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	03/12/03	<50	<50	<0.3	<0.3	<0.5	<0.5	2.0	<0.5	<0.5	<0.5	<10
	06/13/03	<50	<50	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<25
	11/03/03	<50	<50	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<25
	04/11/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/21/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/13/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25

2 The following additional compounds were detected: Chloroform (2.9 ug/l), Bromodichloromethane (2.0 ug/l), Dibromochloromethane (1.3 ug/l).

3 The sample chromatogram contains three peaks in the diesel range whose pattern and retention times match those previously identified by GCMS as di-basic esters used in plasticizers.

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-22	06/05/01	<50	83	1.2	0.77	0.62	0.85	1,800	2.5	<0.5	3.3	<0.5
	09/05/01	<50	<50	<0.3	<0.3	<0.5	<0.5	770	13	<0.5	1.6	<10
	12/07/01	<50	<50	<0.3	<0.3	<0.5	<0.5	2,000	<50	<50	<50	<1,000
	03/06/02	<50	83	<0.5	0.41	<0.5	<0.5	260	3.4	<0.5	0.51	<10
	06/05/02	<50	<50	<0.3	<0.3	<0.5	<0.5	570	4.6	<0.5	0.96	<10
	09/10/02	<50	90	<0.3	<0.3	<0.5	<0.5	730	12	<0.5	1.3	<10
	12/12/02	<50	<50	<0.3	<0.3	<0.5	<0.5	790	6.8	<0.5	2.1	<10
	03/12/03	<50	<50	<0.3	<0.3	<0.5	<0.5	11	0.84	<0.5	<0.5	<10
	06/13/03	120^M	<50	<2.0	<2.0	<2.0	<2.0	120	<2.0	<2.0	<2.0	<50
	11/03/03	170^M	<50	<2.0	<2.0	<2.0	<2.0	170	3.6	<2.0	<2.0	<50
	08/23/04	NA	NA	<2.0	<2.0	<2.0	<2.0	1,100	<2.0	<2.0	2.9	65
	12/22/04	NA	NA	<10	<10	<10	<10	430	<10	<10	<10	<250
	04/07/05	NA	<50	<5.0	<5.0	<5.0	<5.0	170	<5.0	<5.0	<5.0	<120
	10/21/05	97^M	NA	<1.0	<1.0	<1.0	<1.0	89	3.4	<1.0	<1.0	<25
	01/17/06	150^M	NA	<1.0	<1.0	<1.0	<1.0	150	<1.0	<1.0	<1.0	<25
MW-23	06/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	130	<0.5	<0.5	<0.5	<10
	09/06/01	<50	<50	<0.3	<0.3	<0.5	<0.5	160	<0.5	<0.5	<0.5	<10
	12/07/01 ⁴	<50	51	<6.0	<6.0	<10	<10	150	<10	<10	<10	<200
	03/08/02	<50	63	<0.3	0.4	<0.5	<0.5	38	<0.5	<0.5	1.3	<10
	06/06/02	<50	74	<0.3	<0.3	<0.5	<0.5	160	<0.5	<0.5	2.5	<10
	09/11/02	<50	85⁷	<0.3	<0.3	<0.5	<0.5	130	<0.5	<0.5	0.63	<10
	12/11/02	<50	<50	<0.3	<0.3	<0.5	<0.5	100	<0.5	<0.5	<0.5	<10
	03/12/03	<50	<50	<3.0	<3.0	<5.0	<5.0	350	<5.0	<5.0	18	130
	06/13/03	330^M	<50	<5.0	<5.0	<5.0	<5.0	310	<5.0	<5.0	15	<100
	10/31/03	210^M	<50	<2.0	3.0	<2.0	<2.0	200	<2.0	<2.0	6.8	<50
	04/11/05	NA	<50	<1.0	<1.0	<1.0	<1.0	6.7	<1.0	<1.0	<1.0	<25
	10/20/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/13/06	<50	NA	<1.0	<1.0	<1.0	<1.0	18	<1.0	<1.0	<1.0	<25

4 Elevated detection limits in 8260B due to matrix interference

7 Results in the diesel range are primarily due to overlap from a heavy oil range product.

M The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE)

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-24D	06/06/01	1,800	58	1.3	1.4	0.91	3.2	1.9	<0.5	<0.5	<0.5	<10
	09/05/01	Access obstructed by property owner										
	12/07/01	Access obstructed by property owner										
	03/07/02	Access obstructed by property owner										
	04/04/02	<50	<50	<0.3	<0.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
	06/12/02	<50	<50	<0.3	<0.3	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<10
	09/11/02	<50	<51	<0.3	<0.3	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<10
	12/10/02	<50	54	<0.3	<0.3	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<10
	03/11/03	<50	<50	<0.3	<0.3	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<10
	06/13/03	<50	<50	1.4	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
MW-25D	10/31/03	<50	<50	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	<25
	04/07/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/20/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/17/06	<50	NA	<1.0	<1.0	<1.0	4.3	<1.0	<1.0	<1.0	<1.0	<25
	11/03/03	<50	<50	<1.0	1.1	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<25
	08/23/04	NA	NA	<1.0	<1.0	<1.0	<1.0	4.0	<1.0	<1.0	<1.0	<25
MW-26D	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<25
	04/12/05	NA	<50	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<25
	10/21/05	<50	NA	<1.0	<1.0	<1.0	<1.0	2.5	<1.0	<1.0	<1.0	<25
	01/16/06	<50	NA	<1.0	<1.0	<1.0	<1.0	3.5	<1.0	<1.0	<1.0	<25
	10/29/03	<50	<1.0	<1.0	<1.0	<1.0	12.0	<1.0	<1.0	<1.0	<1.0	<25
	08/23/04	NA	NA	1.8	1.7	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<25
MW-27	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	04/12/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/21/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/13/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	<1.0	<1.0	<25
	10/29/03	70^M	<50	<1.0	1.4	<1.0	<1.0	66	<1.0	<1.0	2.0	<25
	08/23/04	NA	NA	<1.0	<1.0	<1.0	<1.0	230	<1.0	<1.0	2.6	35

M The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE)

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-28	10/28/03	<50	<50	<1.0	<1.0	<1.0	<1.0	3.6	<1.0	<1.0	<1.0	<25
	08/24/04	NA	NA	<1.0	<1.0	<1.0	<1.0	2.3	<1.0	<1.0	<1.0	<25
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	04/07/05	NA	<50	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	<25
	10/20/05	<50	NA	<1.0	<1.0	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<25
	01/16/06	<50	NA	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	<25
MW-29D	10/28/03	<50	<50	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	08/24/04	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	04/07/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/20/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/16/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
MW-30	10/31/03	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	08/23/04	NA	NA	<1.0	<1.0	<1.0	<1.0	1.9	<1.0	<1.0	<1.0	<25
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	1.4	<1.0	<1.0	<1.0	<25
	04/07/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/20/05	<50	NA	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/13/06	<50	NA	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	<25
MW-31D	10/31/03	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	08/23/04	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	12/22/04	NA	NA	5.0	1.3	1.2	1.5	<1.0	<1.0	<1.0	<1.0	<25
	04/07/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/20/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/13/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
MW-32	10/29/03	90^M	<50	<1.0	<1.0	<1.0	<1.0	85	<1.0	<1.0	3.3	<25
	08/23/04	NA	NA	1.4	1.2	<1.0	<1.0	110	<1.0	<1.0	<3.2	<25
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	90	<1.0	<1.0	2.2	<25
	04/12/05	NA	<50	<1.0	<1.0	<1.0	<1.0	34	<1.0	<1.0	<1.0	<25
	10/21/05	<50	NA	<1.0	<1.0	<1.0	<1.0	31	<1.0	<1.0	1.2	<25
	01/13/06	51^M	NA	<1.0	<1.0	<1.0	<1.0	51	<1.0	<1.0	<1.0	<25

M The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE)

Table 3: Groundwater Analytical Results
365 Todd Road, Santa Rosa, California

ID	Date	TPH-g	TPH-d	B	T	E	X	MTBE	DIPE	ETBE	TAME	TBA
		ug/L										
MW-33	10/29/03	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	08/23/04	NA	NA	2.4	2.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	04/11/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/20/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/16/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
MW-34	11/03/03	<50	<50	<1.0	1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<25
	08/23/04	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	04/11/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/21/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/16/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
MW-35D	11/03/03	<50	<50	<1.0	2.1	<1.0	1.2	1.9	<1.0	<1.0	<1.0	<25
	08/23/04	NA	NA	<1.0	<1.0	<1.0	<1.0	3.1	<1.0	<1.0	<1.0	<25
	12/22/04	NA	NA	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<25
	04/11/05	NA	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	10/21/05	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25
	01/16/06	<50	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<25

Table 4: Natural Attenuation Parameters in Groundwater
365 Todd Road, Santa Rosa, California

ID	Date	Alkalinity	Free CO ₂	NO ₃ ⁻¹	SO ₄ ⁻²	Fe ⁺²	Mg	Mn	pH	ORP	Methane
		mg CaCO ₃ /l	mg CO ₂ /l	mg/L					Units	mVolts	ug/L
MW-4	04/11/05	110	33	1.0	10	<0.3	NA	NA	6.82	380	NA
	10/20/05	290	150	<0.50	21	0.57	46	2.8	6.60	380	40
	01/17/06	280	92	<0.10	19	0.24	42	2.9	6.80	320	<10
MW-5	04/11/05	200	71	<0.5	11	0.51	NA	NA	6.74	376	NA
	10/20/05	300	120	1.0	32	0.29	51	5.8	6.70	370	1,000
	01/17/06	180	62	<0.10	6.3	0.22	24	3.2	6.80	300	2,700
MW-7	04/12/05	740	200	<0.5	110	0.6	NA	NA	6.87	390	NA
	10/20/05	680	230	<0.50	82	<0.20	110	3.7	6.80	380	<10
	01/16/06	690	190	<0.10	93	0.25	100	3.5	6.90	360	14
MW-8	04/11/05	360	81	1.7	87	<0.3	NA	NA	6.94	380	NA
	10/20/05	500	120	11.0	61	<0.20	81	2.4	6.90	370	<10
	01/16/06	270	69	1.3	65	<0.20	37	0.74	6.90	330	<10
MW-9	04/11/05	500	130	19.0	62	1.0	NA	NA	6.89	380	NA
	10/20/05	520	160	1.6	39	<0.20	73	0.95	6.80	370	<10
	01/17/06	460	81	14.0	46	<0.20	57	0.089	7.00	310	<10
MW-10	04/11/05	720	190	1.0	40	0.61	NA	NA	6.87	370	NA
	10/21/05	910	360	<0.50	42	<0.20	130	2.3	6.70	370	<10
	01/16/06	750	210	<0.10	57	0.28	100	2.2	6.90	340	<10
MW-14	04/12/05	280	19	<0.5	28	<0.3	NA	NA	7.47	380	NA
	10/21/05	310	34	<0.50	18	<0.20	32	<0.020	7.30	350	<10
	01/17/06	310	24	1.1	27	<0.20	33	<0.020	7.40	290	<10
MW-15	04/12/05	500	120	<0.5	50	3.1	NA	NA	6.93	390	NA
	10/21/05	500	170	<0.50	48	0.54	90	1.5	6.80	370	<10
	01/17/06	720	210	<0.10	71	<0.75	89	1.5	6.80	310	<10
MW-18D	04/12/05	41	10	<0.5	3.6	0.88	NA	NA	6.91	390	NA
	10/21/05	78	14	<0.50	4.9	0.41	7.4	1.4	7.00	340	<10
	01/17/06	93	9.4	<0.10	6.1	0.38	9.8	1.3	7.30	290	<10

Table 4: Natural Attenuation Parameters in Groundwater
365 Todd Road, Santa Rosa, California

ID	Date	Alkalinity	Free CO ₂	NO ₃ ⁻¹	SO ₄ ⁻²	Fe ⁺²	Mg	Mn	pH	ORP	Methane
		mg CaCO ₃ /l	mg CO ₂ /l	mg/L					Units	mVolts	ug/L
MW-20	04/12/05	180	96	<0.5	6.2	0.33	NA	NA	6.57	410	NA
	10/21/05	170	64	1.1	14	0.34	15	<0.20	6.70	360	<10
	01/17/06	190	96	1.4	8.3	1.3	19	0.75	6.60	320	<10
MW-22	04/12/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/21/05	360	83	22	46	<0.20	54	<0.020	6.90	360	<10
	01/17/06	450	70	18	61	<0.20	66	<0.020	7.10	320	<10
MW-24D	04/07/05	340	40	42.0	44	<0.3	NA	NA	7.24	400	NA
	10/20/05	150	16	1.1	7.6	<0.20	20	0.046	7.30	340	<10
	01/17/06	150	5.3	1.3	7.9	<0.20	20	0.041	7.80	300	<10
MW-27	04/12/05	240	22	3.2	42	0.43	NA	NA	7.35	390	NA
	10/21/05	440	97	<0.50	30	<0.20	66	0.74	7.00	370	<10
	01/16/06	270	24	3.3	46	0.23	45	0.22	7.40	310	<10
MW-28	04/07/05	490	70	31.0	40	<0.3	NA	NA	7.24	400	NA
	10/20/05	370	81	25	39	<0.20	54	0.36	7.00	360	<10
	01/16/06	430	72	12	54	<0.20	54	0.18	7.10	320	<10
MW-33	04/11/05	330	89.0	12.0	99	0.47	NA	NA	6.87	380	NA
	10/20/05	370	150.0	10	78	<0.20	55	0.62	6.70	370	<10
	01/16/06	320	91.0	12	84	<0.20	49	0.53	6.80	320	<10

Appendices

Appendix A

Well Purge Records 4th Quarter, dated October 2005

Well Purge Records 1st Quarter, dated January 2006

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-4

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW- 5

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-7

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW- 8

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-9

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-10

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-14

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-15

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-16D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-17D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-18D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-19

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-20

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-21

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-22

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-23

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-24D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-25D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-26D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-27

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-28

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-29D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-30

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-31D

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-32

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-33

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-34

SCS ENGINEERS

WELL PURGE RECORD

2005 - 4th Quarter

WELL NUMBER

MW-35D

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-4

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-5

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW- 7

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW- 8

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-9

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-10

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-14

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-15

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-16D

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-17D

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-18D

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-19

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-20

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-21

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-22

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-23

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-24D

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-25D

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-26D

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-27

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-28

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-29D

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-30

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-31D

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-32

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-33

SCS ENGINEERS

WELL PURGE RECORD

2006 - 1st Quarter

WELL NUMBER

MW-34

SCS ENGINEERS

WELL PURGE RECORD

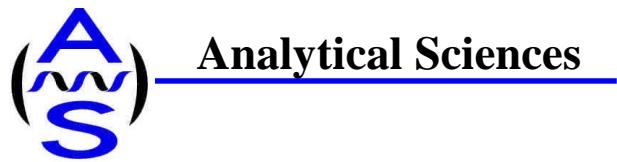
2006 - 1st Quarter

WELL NUMBER

MW-35D

Appendix B

Analytical Sciences Report #5102402, dated 7 November 2005
Analytical Sciences Report #5102404, dated 3 November 2005
Analytical Sciences Report #5102405, dated 3 November 2005
Analytical Sciences Report #5102406, dated 3 November 2005
Analytical Sciences Report #6011801, dated 30 January 2006
Analytical Sciences Report #6011706, dated 30 January 2006



Analytical Sciences

November 07, 2005

Stephen Knuttel
SCS Engineers
3645 Westwind Blvd
Santa Rosa, CA 95403

Dear Stephen,

Enclosed you will find Analytical Sciences' final report 5102402 for your J.E. McCaffrey project. An invoice for this work is enclosed.

Should you or your client have any questions regarding this report please contact me at your convenience. We appreciate you selecting Analytical Sciences for this work and look forward to serving your analytical chemistry needs on projects in the future.

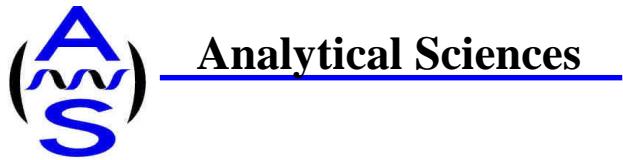
Sincerely,

Analytical Sciences

A handwritten signature in blue ink that reads "Mark A. Valentini".

Mark A. Valentini, Ph.D.

Laboratory Director



Analytical Sciences

Report Date: November 07, 2005

Laboratory Report

Stephen Knuttel
SCS Engineers
3645 Westwind Blvd
Santa Rosa, CA 95403

Project Name: **J.E. McCaffrey** **01203335.00**
Lab Project: **5102402**

This 58 page report of analytical data has been reviewed and approved for release.

A handwritten signature in blue ink that reads "Mark A. Valentini".

Mark A. Valentini, Ph.D.
Laboratory Director



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-01	MW-4	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000233
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-02	MW-5	Gasoline	67	50

Date Sampled:	10/20/05	Date Analyzed:	10/27/05	QC Batch: B000233
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-03	MW-7	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000233
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-04	MW-8	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000233
Date Received:	10/24/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-05	MW-9	Gasoline	400 M	50

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000233
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-06	MW-10	Gasoline	230 M	50

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000233
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-07	MW-14	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000233
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-08	MW-15	Gasoline	250 M	50

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000233
Date Received:	10/24/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-09	MW-18D	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000233
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-10	MW-20	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000233
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-11	MW-24D	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-12	MW-27	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-13	MW-28	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-14	MW-33	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-15	MW-16D	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-16	MW-17D	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-17	MW-19	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-18	MW-21	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-19	MW-22	Gasoline	97	M

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-20	MW-23	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/27/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-21	MW-25D	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-22	MW-26D	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-23	MW-29D	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/27/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-24	MW-30	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/27/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	



TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-25	MW-31D	Gasoline	ND	50

Date Sampled:	10/20/05	Date Analyzed:	10/27/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-26	MW-32	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-27	MW-34	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	

TPH Gasoline in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-28	MW-35D	Gasoline	ND	50

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000250
Date Received:	10/24/05	Method:	EPA 8015	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-01	MW-4	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	7.2	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.8	104	70-130
Toluene-d8		20.7	104	70-130
4-Bromofluorobenzene		21.9	110	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-02	MW-5	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	3.6	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.7	104	70-130
Toluene-d8		20.9	104	70-130
4-Bromofluorobenzene		21.9	110	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-03	MW-7	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	6.0	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.9	104	70-130
Toluene-d8		20.9	104	70-130
4-Bromofluorobenzene		21.7	108	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-04	MW-8	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.3	102	70-130
Toluene-d8		19.9	100	70-130
4-Bromofluorobenzene		23.1	116	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-05	MW-9	Benzene	ND	5.0
		Toluene	ND	5.0
		Ethylbenzene	ND	5.0
		m,p-Xylene	ND	5.0
		o-Xylene	ND	5.0
		Tertiary Butyl Alcohol (TBA)	ND	120
		Methyl tert-Butyl Ether (MTBE)	390	5.0
		Di-isopropyl Ether (DIPE)	5.1	5.0
		Ethyl tert-Butyl Ether (ETBE)	ND	5.0
		Tert-Amyl Methyl Ether (TAME)	ND	5.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		19.7	98	70-130
Toluene-d8		21.6	108	70-130
4-Bromofluorobenzene		19.8	99	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-06	MW-10	Benzene	ND	5.0
		Toluene	ND	5.0
		Ethylbenzene	ND	5.0
		m,p-Xylene	ND	5.0
		o-Xylene	ND	5.0
		Tertiary Butyl Alcohol (TBA)	ND	120
		Methyl tert-Butyl Ether (MTBE)	230	5.0
		Di-isopropyl Ether (DIPE)	ND	5.0
		Ethyl tert-Butyl Ether (ETBE)	ND	5.0
		Tert-Amyl Methyl Ether (TAME)	ND	5.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.8	94	70-130
Toluene-d8		22.2	111	70-130
4-Bromofluorobenzene		20.2	101	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-07	MW-14	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.0	105	70-130
Toluene-d8		20.9	104	70-130
4-Bromofluorobenzene		21.6	108	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-08	MW-15	Benzene	ND	5.0
		Toluene	ND	5.0
		Ethylbenzene	ND	5.0
		m,p-Xylene	ND	5.0
		o-Xylene	ND	5.0
		Tertiary Butyl Alcohol (TBA)	ND	120
		Methyl tert-Butyl Ether (MTBE)	250	5.0
		Di-isopropyl Ether (DIPE)	ND	5.0
		Ethyl tert-Butyl Ether (ETBE)	ND	5.0
		Tert-Amyl Methyl Ether (TAME)	ND	5.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		19.3	96	70-130
Toluene-d8		21.6	108	70-130
4-Bromofluorobenzene		20.5	102	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-09	MW-18D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	21	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.9	104	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		21.5	108	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-10	MW-20	Benzene	ND (2)	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.9	104	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		21.2	106	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-11	MW-24D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.0	105	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		21.4	107	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-12	MW-27	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	48	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.2	106	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		21.2	106	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-13	MW-28	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	1.3	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.9	104	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		21.2	106	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-14	MW-33	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.3	106	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		21.2	106	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-15	MW-16D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.5	108	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		21.1	106	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-16	MW-17D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	1.0	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.9	104	70-130
Toluene-d8		20.8	104	70-130
4-Bromofluorobenzene		20.9	104	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-17	MW-19	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	3.1	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.4	107	70-130
Toluene-d8		20.9	104	70-130
4-Bromofluorobenzene		21.2	106	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-18	MW-21	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.2	106	70-130
Toluene-d8		20.8	104	70-130
4-Bromofluorobenzene		20.9	104	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-19	MW-22	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	89	1.0
		Di-isopropyl Ether (DIPE)	3.4	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.0	100	70-130
Toluene-d8		20.3	102	70-130
4-Bromofluorobenzene		22.6	113	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-20	MW-23	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	25	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.4	107	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		20.7	104	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-21	MW-25D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	2.5	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.2	106	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		21.0	105	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-22	MW-26D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.6	108	70-130
Toluene-d8		21.1	106	70-130
4-Bromofluorobenzene		20.8	104	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-23	MW-29D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		21.4	107	70-130
Toluene-d8		21.0	105	70-130
4-Bromofluorobenzene		20.6	103	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-24	MW-30	Benzene	1.1	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		19.9	100	70-130
Toluene-d8		19.6	98	70-130
4-Bromofluorobenzene		18.4	92	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/28/05	QC Batch: B000256
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-25	MW-31D	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.6	103	70-130
Toluene-d8		20.0	100	70-130
4-Bromofluorobenzene		18.6	93	70-130

Date Sampled:	10/20/05	Date Analyzed:	10/28/05	QC Batch: B000256
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-26	MW-32	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	31	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	1.2	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		18.3	92	70-130
Toluene-d8		22.2	111	70-130
4-Bromofluorobenzene		20.1	100	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000247
Date Received:	10/24/05	Method:	EPA 8260B	



Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-27	MW-34	Benzene	ND	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.2	101	70-130
Toluene-d8		19.9	100	70-130
4-Bromofluorobenzene		18.8	94	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/28/05	QC Batch: B000256
Date Received:	10/24/05	Method:	EPA 8260B	

Volatile Hydrocarbons by GC/MS in Water

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-28	MW-35D	Benzene	ND (1)	1.0
		Toluene	ND	1.0
		Ethylbenzene	ND	1.0
		m,p-Xylene	ND	1.0
		o-Xylene	ND	1.0
		Tertiary Butyl Alcohol (TBA)	ND	25
		Methyl tert-Butyl Ether (MTBE)	ND	1.0
		Di-isopropyl Ether (DIPE)	ND	1.0
		Ethyl tert-Butyl Ether (ETBE)	ND	1.0
		Tert-Amyl Methyl Ether (TAME)	ND	1.0
Surrogates		Result (ug/L)	% Recovery	Acceptance Range (%)
Dibromofluoromethane		20.5	102	70-130
Toluene-d8		19.9	100	70-130
4-Bromofluorobenzene		18.6	93	70-130

Date Sampled:	10/21/05	Date Analyzed:	10/28/05	QC Batch: B000256
Date Received:	10/24/05	Method:	EPA 8260B	



Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-01	MW-4	Methane	40	10

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-02	MW-5	Methane	1000	10

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-03	MW-7	Methane	ND	10

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-04	MW-8	Methane	ND	10

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	



Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-05	MW-9	Methane	ND	10

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-06	MW-10	Methane	ND	10

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-07	MW-14	Methane	ND	10

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-08	MW-15	Methane	ND	10

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	



Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-09	MW-18D	Methane	ND	10

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-10	MW-20	Methane	ND	10

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-11	MW-24D	Methane	ND	10

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-12	MW-27	Methane	ND	10

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	



Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-13	MW-28	Methane	ND	10

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-14	MW-33	Methane	ND	10

Date Sampled:	10/20/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Methane by GC

Lab#	Sample ID	Compound Name	Result (ug/L)	RDL (ug/L)
5102402-19	MW-22	Methane	ND	10

Date Sampled:	10/21/05	Date Analyzed:	10/26/05	QC Batch: B000240
Date Received:	10/24/05	Method:	RSK 175	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-01	MW-4	Magnesium (Mg)	46	1.0
		Manganese (Mn)	2.8	0.20

Date Sampled:	10/20/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	



Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-02	MW-5	Magnesium (Mg)	51	1.0
		Manganese (Mn)	5.8	0.20

Date Sampled:	10/20/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-03	MW-7	Magnesium (Mg)	110	2.0
		Manganese (Mn)	3.7	0.20

Date Sampled:	10/20/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-04	MW-8	Magnesium (Mg)	81	1.0
		Manganese (Mn)	2.4	0.20

Date Sampled:	10/20/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-05	MW-9	Magnesium (Mg)	73	1.0
		Manganese (Mn)	0.95	0.020

Date Sampled:	10/20/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	



Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-06	MW-10	Magnesium (Mg)	130	2.0
		Manganese (Mn)	2.3	0.40

Date Sampled:	10/21/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-07	MW-14	Magnesium (Mg)	32	1.0
		Manganese (Mn)	ND	0.020

Date Sampled:	10/21/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-08	MW-15	Magnesium (Mg)	90	1.0
		Manganese (Mn)	1.5	0.20

Date Sampled:	10/21/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-09	MW-18D	Magnesium (Mg)	7.4	1.0
		Manganese (Mn)	1.4	0.20

Date Sampled:	10/21/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	



Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-10	MW-20	Magnesium (Mg)	15	1.0
		Manganese (Mn)	ND	0.20

Date Sampled:	10/21/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-11	MW-24D	Magnesium (Mg)	20	1.0
		Manganese (Mn)	0.046	0.020

Date Sampled:	10/20/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-12	MW-27	Magnesium (Mg)	66	1.0
		Manganese (Mn)	0.74	0.020

Date Sampled:	10/21/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-13	MW-28	Magnesium (Mg)	54	1.0
		Manganese (Mn)	0.36	0.020

Date Sampled:	10/20/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	



Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-14	MW-33	Magnesium (Mg)	55	1.0
		Manganese (Mn)	0.62	0.020

Date Sampled:	10/20/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Metals in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-19	MW-22	Magnesium (Mg)	54	1.0
		Manganese (Mn)	ND	0.020

Date Sampled:	10/21/05	Date Analyzed:	11/03/05	QC Batch: B000260
Date Received:	10/24/05	Method:	EPA 6010B	

Dissolved CO2 in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO3/L)	RDL (mg CaCO3/L)
5102402-01	MW-4	Total Alkalinity	290	5.0
		pH	6.6	1.0
		Free CO2 by calculation	150	5.0

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	

Dissolved CO2 in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO3/L)	RDL (mg CaCO3/L)
5102402-02	MW-5	Total Alkalinity	300	5.0
		pH	6.7	1.0
		Free CO2 by calculation	120	5.0

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	



Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-03	MW-7	Total Alkalinity	680	5.0
		pH	6.8	1.0
		Free CO ₂ by calculation	230	5.0

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	

Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-04	MW-8	Total Alkalinity	500	5.0
		pH	6.9	1.0
		Free CO ₂ by calculation	120	5.0

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	

Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-05	MW-9	Total Alkalinity	520	5.0
		pH	6.8	1.0
		Free CO ₂ by calculation	160	5.0

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	



Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-06	MW-10	Total Alkalinity	910	5.0
		pH	6.7	1.0
		Free CO ₂ by calculation	360	5.0

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	

Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-07	MW-14	Total Alkalinity	310	5.0
		pH	7.3	1.0
		Free CO ₂ by calculation	34	5.0

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	

Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-08	MW-15	Total Alkalinity	500	5.0
		pH	6.8	1.0
		Free CO ₂ by calculation	170	5.0

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	



Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-09	MW-18D	Total Alkalinity	78	5.0
		pH	7.0	1.0
		Free CO ₂ by calculation	14	5.0

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	

Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-10	MW-20	Total Alkalinity	170	5.0
		pH	6.7	1.0
		Free CO ₂ by calculation	64	5.0

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	

Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-11	MW-24D	Total Alkalinity	150	5.0
		pH	7.3	1.0
		Free CO ₂ by calculation	16	5.0

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	



Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-12	MW-27	Total Alkalinity	440	5.0
		pH	7.0	1.0
		Free CO ₂ by calculation	97	5.0

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	

Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-13	MW-28	Total Alkalinity	370	5.0
		pH	7.0	1.0
		Free CO ₂ by calculation	81	5.0

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	

Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-14	MW-33	Total Alkalinity	370	5.0
		pH	6.7	1.0
		Free CO ₂ by calculation	150	5.0

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	



Dissolved CO₂ in Water

Lab#	Sample ID	Compound Name	Result (mg CaCO ₃ /L)	RDL (mg CaCO ₃ /L)
5102402-19	MW-22	Total Alkalinity	360	5.0
		pH	6.9	1.0
		Free CO ₂ by calculation	83	5.0

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000244
Date Received:	10/24/05	Method:	SM 4500	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-01	MW-4	Oxidation Reduction Potential (ORP)	380	0.0

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-02	MW-5	Oxidation Reduction Potential (ORP)	370	0.0

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-03	MW-7	Oxidation Reduction Potential (ORP)	380	0.0

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	



Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-04	MW-8	Oxidation Reduction Potential (ORP)	370	0.0

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-05	MW-9	Oxidation Reduction Potential (ORP)	370	0.0

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-06	MW-10	Oxidation Reduction Potential (ORP)	370	0.0

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-07	MW-14	Oxidation Reduction Potential (ORP)	350	0.0

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	



Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-08	MW-15	Oxidation Reduction Potential (ORP)	370	0.0

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-09	MW-18D	Oxidation Reduction Potential (ORP)	340	0.0

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-10	MW-20	Oxidation Reduction Potential (ORP)	360	0.0

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-11	MW-24D	Oxidation Reduction Potential (ORP)	340	0.0

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	



Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-12	MW-27	Oxidation Reduction Potential (ORP)	370	0.0

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-13	MW-28	Oxidation Reduction Potential (ORP)	360	0.0

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-14	MW-33	Oxidation Reduction Potential (ORP)	370	0.0

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	

Oxygen Reduction Potential (ORP) in Water

Lab#	Sample ID	Compound Name	Result (mV)	RDL (mV)
5102402-19	MW-22	Oxidation Reduction Potential (ORP)	360	0.0

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000242
Date Received:	10/24/05	Method:	SM 2580	



Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-01	MW-4	Nitrate	ND	0.50

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-02	MW-5	Nitrate	1.0	0.50

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-03	MW-7	Nitrate	ND	0.50

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-04	MW-8	Nitrate	11	0.50

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	



Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-05	MW-9	Nitrate	1.6	0.50

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-06	MW-10	Nitrate	ND	0.50

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-07	MW-14	Nitrate	ND	0.50

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-08	MW-15	Nitrate	ND	0.50

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	



Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-09	MW-18D	Nitrate	ND	0.50

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-10	MW-20	Nitrate	1.1	0.50

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-11	MW-24D	Nitrate	1.1	0.50

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-12	MW-27	Nitrate	ND	0.50

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	



Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-13	MW-28	Nitrate	25	0.50

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-14	MW-33	Nitrate	10	0.50

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Nitrate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-19	MW-22	Nitrate	22	0.50

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-01	MW-4	Sulfate as SO ₄	21	2.5

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	



Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-02	MW-5	Sulfate as SO ₄	32	2.5

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-03	MW-7	Sulfate as SO ₄	82	25

Date Sampled:	10/20/05	Date Analyzed:	10/27/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-04	MW-8	Sulfate as SO ₄	61	25

Date Sampled:	10/20/05	Date Analyzed:	10/27/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-05	MW-9	Sulfate as SO ₄	39	10

Date Sampled:	10/20/05	Date Analyzed:	10/27/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	



Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-06	MW-10	Sulfate as SO ₄	42	10

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-07	MW-14	Sulfate as SO ₄	18	2.5

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-08	MW-15	Sulfate as SO ₄	48	10

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-09	MW-18D	Sulfate as SO ₄	4.9	2.5

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	



Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-10	MW-20	Sulfate as SO ₄	14	2.5

Date Sampled:	10/21/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-11	MW-24D	Sulfate as SO ₄	7.6	2.5

Date Sampled:	10/20/05	Date Analyzed:	10/24/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-12	MW-27	Sulfate as SO ₄	30	5.0

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-13	MW-28	Sulfate as SO ₄	39	10

Date Sampled:	10/20/05	Date Analyzed:	10/27/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	



Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-14	MW-33	Sulfate as SO ₄	78	25

Date Sampled:	10/20/05	Date Analyzed:	10/27/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Sulfate in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-19	MW-22	Sulfate as SO ₄	46	10

Date Sampled:	10/21/05	Date Analyzed:	10/27/05	QC Batch: B000246
Date Received:	10/24/05	Method:	EPA 300.0	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-01	MW-4	Ferrous Iron	0.57	0.20

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-02	MW-5	Ferrous Iron	0.29	0.20

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	



Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-03	MW-7	Ferrous Iron	ND	0.20

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-04	MW-8	Ferrous Iron	ND	0.20

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-05	MW-9	Ferrous Iron	ND	0.20

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-06	MW-10	Ferrous Iron	ND	0.20

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	



Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-07	MW-14	Ferrous Iron	ND	0.20

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-08	MW-15	Ferrous Iron	0.54	0.20

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-09	MW-18D	Ferrous Iron	0.41	0.20

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-10	MW-20	Ferrous Iron	0.34	0.20

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	



Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-11	MW-24D	Ferrous Iron	ND	0.20

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-12	MW-27	Ferrous Iron	ND	0.20

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-13	MW-28	Ferrous Iron	ND	0.20

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	

Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-14	MW-33	Ferrous Iron	ND	0.20

Date Sampled:	10/20/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	



Ferrous Iron in Water

Lab#	Sample ID	Compound Name	Result (mg/L)	RDL (mg/L)
5102402-19	MW-22	Ferrous Iron	ND	0.20

Date Sampled:	10/21/05	Date Analyzed:	10/25/05	QC Batch: B000245
Date Received:	10/24/05	Method:	SM 3500	



Quality Assurance Report

TPH Gasoline in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000233 - EPA 5030 GC

Blank (B000233-BLK1)				Prepared: 10/21/05 Analyzed: 10/24/05						
Gasoline	ND	50	ug/L							
Matrix Spike (B000233-MS1)				Source: 5102007-02 Prepared: 10/21/05 Analyzed: 10/24/05						
Benzene	9.09	0.50	ug/L	10.0	ND	91	70-130			
Toluene	9.21	0.50	ug/L	10.0	ND	92	70-130			
Ethylbenzene	9.46	0.50	ug/L	10.0	ND	95	70-130			
Xylenes	28.8	1.5	ug/L	30.0	ND	96	70-130			
Matrix Spike Dup (B000233-MSD1)				Source: 5102007-02 Prepared: 10/21/05 Analyzed: 10/24/05						
Benzene	9.05	0.50	ug/L	10.0	ND	90	70-130	1	20	
Toluene	9.31	0.50	ug/L	10.0	ND	93	70-130	1	20	
Ethylbenzene	9.33	0.50	ug/L	10.0	ND	93	70-130	2	20	
Xylenes	28.6	1.5	ug/L	30.0	ND	95	70-130	1	20	

Batch B000250 - EPA 5030 GC

Blank (B000250-BLK1)				Prepared & Analyzed: 10/26/05						
Gasoline	ND	50	ug/L							
Matrix Spike (B000250-MS1)				Source: 5102402-11 Prepared & Analyzed: 10/26/05						
Benzene	9.02	0.50	ug/L	10.0	ND	90	70-130			
Toluene	9.10	0.50	ug/L	10.0	ND	91	70-130			
Ethylbenzene	9.08	0.50	ug/L	10.0	ND	91	70-130			
Xylenes	28.3	1.5	ug/L	30.0	ND	94	70-130			
Matrix Spike Dup (B000250-MSD1)				Source: 5102402-11 Prepared & Analyzed: 10/26/05						
Benzene	9.01	0.50	ug/L	10.0	ND	90	70-130	0	20	
Toluene	9.06	0.50	ug/L	10.0	ND	91	70-130	0	20	
Ethylbenzene	9.10	0.50	ug/L	10.0	ND	91	70-130	0	20	
Xylenes	27.5	1.5	ug/L	30.0	ND	92	70-130	2	20	



Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000247 - EPA 5030 GC/MS

Blank (B000247-BLK1)		Prepared: 10/25/05 Analyzed: 10/27/05								
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
m,p-Xylene	ND	1.0	ug/L							
o-Xylene	ND	1.0	ug/L							
Tertiary Butyl Alcohol (TBA)	ND	25	ug/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	ug/L							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/L							
<i>Surrogate: Dibromofluoromethane</i>	0.00		ug/L	20.0				70-130		
<i>Surrogate: Toluene-d8</i>	0.00		ug/L	20.0				70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.00		ug/L	20.0				70-130		
Matrix Spike (B000247-MS1)		Source: 5102402-04			Prepared: 10/25/05 Analyzed: 10/27/05					
1,1-Dichloroethene (1,1-DCE)	ND	1.0	ug/L	25.0	ND			70-130		
Benzene	ND	1.0	ug/L	25.0	ND			70-130		
Trichloroethene (TCE)	ND	1.0	ug/L	25.0	ND			70-130		
Toluene	ND	1.0	ug/L	25.0	ND			70-130		
Chlorobenzene	ND	1.0	ug/L	25.0	ND			70-130		
<i>Surrogate: Dibromofluoromethane</i>	0.00		ug/L	20.0				70-130		
<i>Surrogate: Toluene-d8</i>	0.00		ug/L	20.0				70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.00		ug/L	20.0				70-130		
Matrix Spike Dup (B000247-MSD1)		Source: 5102402-04			Prepared: 10/25/05 Analyzed: 10/27/05					
1,1-Dichloroethene (1,1-DCE)	ND	1.0	ug/L	25.0	ND			70-130		20
Benzene	ND	1.0	ug/L	25.0	ND			70-130		20
Trichloroethene (TCE)	ND	1.0	ug/L	25.0	ND			70-130		20
Toluene	ND	1.0	ug/L	25.0	ND			70-130		20
Chlorobenzene	ND	1.0	ug/L	25.0	ND			70-130		20
<i>Surrogate: Dibromofluoromethane</i>	0.00		ug/L	20.0				70-130		
<i>Surrogate: Toluene-d8</i>	0.00		ug/L	20.0				70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	0.00		ug/L	20.0				70-130		



Volatile Hydrocarbons by GC/MS in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B000256 - EPA 5030 GC/MS										
Blank (B000256-BLK1)										
Prepared: 10/27/05 Analyzed: 10/28/05										
Benzene	ND	1.0	ug/L							
Toluene	ND	1.0	ug/L							
Ethylbenzene	ND	1.0	ug/L							
m,p-Xylene	ND	1.0	ug/L							
o-Xylene	ND	1.0	ug/L							
Tertiary Butyl Alcohol (TBA)	ND	25	ug/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	ug/L							
Di-isopropyl Ether (DIPE)	ND	1.0	ug/L							
Ethyl tert-Butyl Ether (ETBE)	ND	1.0	ug/L							
Tert-Amyl Methyl Ether (TAME)	ND	1.0	ug/L							
<i>Surrogate: Dibromofluoromethane</i> 20.6 ug/L 20.0 103 70-130										
<i>Surrogate: Toluene-d8</i> 19.7 ug/L 20.0 98 70-130										
<i>Surrogate: 4-Bromofluorobenzene</i> 19.6 ug/L 20.0 98 70-130										
Matrix Spike (B000256-MS1)										
Source: 5102706-01 Prepared: 10/27/05 Analyzed: 10/28/05										
1,1-Dichloroethene (1,1-DCE)	21.6	1.0	ug/L	25.0	ND	86	70-130			
Benzene	21.8	1.0	ug/L	25.0	ND	87	70-130			
Trichloroethene (TCE)	21.9	1.0	ug/L	25.0	ND	88	70-130			
Toluene	22.3	1.0	ug/L	25.0	ND	89	70-130			
Chlorobenzene	22.7	1.0	ug/L	25.0	ND	91	70-130			
<i>Surrogate: Dibromofluoromethane</i> 19.6 ug/L 20.0 98 70-130										
<i>Surrogate: Toluene-d8</i> 20.0 ug/L 20.0 100 70-130										
<i>Surrogate: 4-Bromofluorobenzene</i> 19.7 ug/L 20.0 98 70-130										
Matrix Spike Dup (B000256-MSD1)										
Source: 5102706-01 Prepared: 10/27/05 Analyzed: 10/28/05										
1,1-Dichloroethene (1,1-DCE)	21.4	1.0	ug/L	25.0	ND	86	70-130	0	20	
Benzene	21.8	1.0	ug/L	25.0	ND	87	70-130	0	20	
Trichloroethene (TCE)	21.9	1.0	ug/L	25.0	ND	88	70-130	0	20	
Toluene	22.2	1.0	ug/L	25.0	ND	89	70-130	0	20	
Chlorobenzene	22.8	1.0	ug/L	25.0	ND	91	70-130	0	20	
<i>Surrogate: Dibromofluoromethane</i> 19.8 ug/L 20.0 99 70-130										
<i>Surrogate: Toluene-d8</i> 19.9 ug/L 20.0 100 70-130										
<i>Surrogate: 4-Bromofluorobenzene</i> 19.8 ug/L 20.0 99 70-130										



Methane by GC

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	Limit Notes
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Batch B000240 - RSK 175

Blank (B000240-BLK1)

Prepared & Analyzed: 10/28/05

Methane ND 10 ug/L



Metals in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000260 - EPA 3010A

Blank (B000260-BLK1)

Prepared: 10/28/05 Analyzed: 11/03/05

Magnesium (Mg)	ND	0.10	mg/L
Manganese (Mn)	ND	0.020	mg/L



Nitrate in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000246 - NO PREP

Blank (B000246-BLK1)				Prepared: 10/24/05 Analyzed: 10/25/05						
Nitrate	ND	0.50	mg/L							
LCS (B000246-BS1)							Prepared: 10/24/05 Analyzed: 10/25/05			
Nitrate	1.92	0.50	mg/L	2.00		96	80-120			
LCS Dup (B000246-BSD1)							Prepared: 10/24/05 Analyzed: 10/25/05			
Nitrate	1.99	0.50	mg/L	2.00		100	80-120	4	20	



Sulfate in Water

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B000246 - NO PREP

<u>Blank (B000246-BLK1)</u>		Prepared: 10/24/05 Analyzed: 10/25/05								
Sulfate as SO ₄	ND	2.0	mg/L							
<u>LCS (B000246-BS1)</u>		Prepared: 10/24/05 Analyzed: 10/25/05								
Sulfate as SO ₄	1.96	2.0	mg/L	2.00		98	85-115			
<u>LCS Dup (B000246-BSD1)</u>		Prepared: 10/24/05 Analyzed: 10/25/05								
Sulfate as SO ₄	2.04	2.0	mg/L	2.00		102	85-115	4	20	



Notes and Definitions

- M The TPH Gasoline result consists primarily of Methyl Tertiary Butyl Ether (MTBE).
- (2) The following additional compounds were detected: Chloroform (2.9 ug/l), Bromodichloromethane (2.0 ug/l), Dibromochloromethane 1.3 ug/l).
- (1) The following additional compound was detected: tetrahydro-Furan (c. 8.7 ug/l)
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference



Analytical Sciences
P.O. Box 750336, Petaluma, CA 94975-0336
110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

CHAIN OF CUSTODY

CLIENT INFORMATION		BILLING INFORMATION	
COMPANY NAME:	SCS ENGINEERS	CONTACT:	Jim McCaffery
ADDRESS:	3645 WESTWIND BOULEVARD	COMPANY NAME:	JE McCaffery Co.
	SANTA ROSA, CA 95403	ADDRESS:	365 Todd Road
CONTACT:	Stephen Knuttel		Santa Rosa, CA 95407
PHONE#:	(707) 546-9461	PHONE#:	707-769-4412
FAX #:	(707) 544-5769	FAX #:	

LAB PROJECT NUMBER:	<u>51024502</u>
SCS ENGINEERS PROJECT NAME:	<u>JE McCaffery</u>
SCS ENGINEERS PROJECT NUMBER:	<u>01203355.00</u>
TURNAROUND TIME (check one)	
MOBILE LAB	<input type="checkbox"/>
SAME DAY	<input type="checkbox"/>
48 HOURS	<input type="checkbox"/>
5 DAYS	<input type="checkbox"/>
24 HOURS	<input type="checkbox"/>
72 HOURS	<input type="checkbox"/>
NORMAL	<input checked="" type="checkbox"/>
GEOTRACKER EDF: <u>X Y N</u>	
GLOBAL ID: <u>T0609700270</u>	
COOLER TEMPERATURE _____ °C	
COC	



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110 Liberty Street, Petaluma, CA 94952
(707) 769-3128

CHAIN OF CUSTODY

CLIENT INFORMATION		BILLING INFORMATION	
COMPANY NAME: SCS ENGINEERS	CONTACT: Jim McCaffery	SCS ENGINEERS PROJECT NUMBER: 01203335.00	LAB PROJECT NUMBER: 510240x
ADDRESS: 3645 WESTWIND BOULEVARD SANTA ROSA, CA 95403	COMPANY NAME: JE McCaffery Co.	SCS ENGINEERS PROJECT NUMBER: 01203335.00	
CONTACT: Stephen Knuttel	ADDRESS: 365 Todd Road	MOBILE LAB	GEOTRACKER EDF: X Y N GLOBAL ID: T0609700270
PHONE#: (707) 546-9461	PHONE#: 707-769-4412	SAME DAY	Cooler Temperature
FAX #: (707) 544-5769	FAX #:	48 HOURS	24 HOURS
		5 DAYS	72 HOURS
			NORMAL
			<input checked="" type="checkbox"/> COC

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	ANALYSIS		TOTAL LEAD	CAM 17 METALS / 5 LUTFT METALS	Pesticides / PCBs / EPA 8081 / 8141 / 8082	Natural Attenributes	Comments	LAB SAMPLE #
							SEMIVOLATILE HYDROCARBONS	CHLORINATED SOLVENTS						
1	MW-27	10/21/05	130	LIQ	37	Yes	X	X	X	Co, Mn, Ni, Cr, Dissolved Nitrate, Fe, Alkalinity, Dissolved Oxygen	-12			
2	MW-28	10/20/05	1320	LIQ	38	No			X					
3	MW-33	10/20/05	160	LIQ	38	No			X					
4	MW-16D	10/21/05	245	LIQ	3	No			X					
5	MW-17D	10/21/05	260	LIQ	1	No								
6	MW-19	10/20/05	230	LIQ	1	No								
7	MW-21	10/21/05	1140	LIQ	1	No								
8	MW-22	10/21/05	300	LIQ	87	No								
9	MW-23	10/20/05	1056	LIQ	3	No								
10	MW-25D	10/21/05	945	LIQ	1	No								
11	MW-26D	10/21/05	1028	LIQ	1	No								

SIGNATURES

RELINQUISHED BY:	DATE: 10/24/05	TIME: 1150
RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:
RECEIVED BY:	DATE:	TIME:
	DATE: 10/24/05	TIME: 1150
	DATE:	TIME:
	DATE:	TIME:
	DATE:	TIME:

10/24/05
TIME

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 P.O. Box 750336, Petaluma, CA 94975-0336
 110 Liberty Street, Petaluma, CA 94952
 (707) 769-3128

CHAIN OF CUSTODY

5102402

CLIENT INFORMATION		BILLING INFORMATION	
COMPANY NAME: SCS ENGINEERS	CONTACT: Jim McCaffery	COMPANY NAME: JE McCaffery Co.	
ADDRESS: 3645 WESTWIND BOULEVARD	ADDRESS: 365 Todd Road	SANTA ROSA, CA 95403	Santa Rosa, CA 95407
CONTACT: Stephen Knutte	PHONE#: (707) 546-9461		PHONE#: 707-769-4412
FAX #: (707) 544-5769	FAX #: 		

LAB PROJECT NUMBER:

SCS ENGINEERS PROJECT NAME:

SCS ENGINEERS PROJECT NUMBER:

01203335.00

TURNAROUND TIME (check one)

GEOTRACKER EDF: **X Y N**
 GLOBAL ID: **T0609700270**

COOLER TEMPERATURE

°C

COC

PAGE **3** OF **3**

ITEM	CLIENT SAMPLE I.D.	DATE SAMPLED	TIME	MATRIX	# CONT.	PRESV. YES/NO	ANALYSIS		COMMENTS	LAB SAMPLE #
							TESTS			
1	MW-29D	10/20/05	1205	LIQ	3	Yes	X		5102402	-23
2	MW-30	10/20/05	1158	LIQ	1				H	-24
3	MW-31D	10/20/05	400	LIQ	1				H	-25
4	MW-32	10/21/05	1230	LIQ	1				H	-26
5	MW-34	10/21/05	1215	LIQ	1				H	-27
6	MW-35D	10/21/05	1200	LIQ	1				H	-28
7										
8										
9										
10										
11										

RELINQUISHED BY:	DATE: 10/24/05	TIME: 11:50	RECEIVED BY LABORATORY:
RECEIVED BY:	DATE: 10/24/05	TIME: 11:50	
RELINQUISHED BY:	DATE: 10/24/05	TIME: 11:50	
RECEIVED BY:	DATE: 10/24/05	TIME: 11:50	